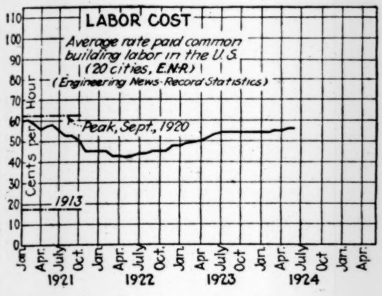
CONSTRUCTION NEWS

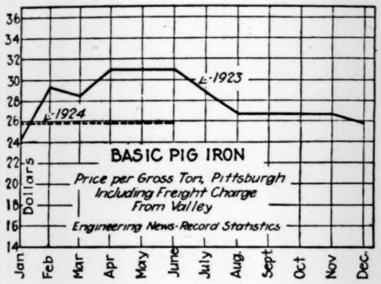
Engineering News-Record, June 5, 1924

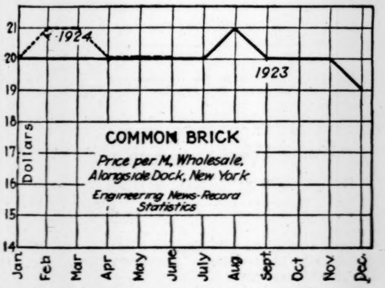
The Construction Barometer

Lower Cost Resulted in May Volume Twenty Per Cent Greater Than That for Preceding Month or Corresponding Period in 1923

CONSTRUCTION is apparently the only one of the principal industries not adversely affected by the present general slump in business. In every other direction there is falling off in demand and consequent curtailment of production. The price trend is downward in certain of the basic materials, as shown by the charts, while in others there is a tendency to remain suspended at present levels. It is evident, then, that lower cost has resulted in a volume of May construction at least 20 per cent greater than that for the preceding month or the corresponding period in 1923. Comparisons of *Engineering News-Record's* Construction Cost and Volume Index Numbers are shown on p. 997 of this issue.







Engineering News-Record Statistics

Minimum on water-works and excavations, $15,000; other public work, $25,000; industrial buildings, $40,000; commercial buildings, $150,000.

VALUE OF LARGE CONTRACTS LET IN THE UNITED STATES

Week Ended	Public Work	Private Work	Total Contracts
May 15	$21,484,000	$25,500,000	$46,984,000
May 22	35,046,000	13,689,000	48,735,000
May 29	24,429,000	19,422,000	43,851,000
3 weeks	$80,959,000	$58,611,000	$139,570,000

LARGE BUILDING CONTRACTS—NUMBER AND VALUE

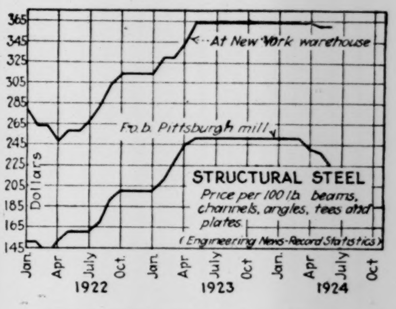
Week Ended	No.	Public Work	No.	Private Work
May 15	9	$2,261,000	38	$20,937,000
May 22	19	12,021,000	24	8,348,000
May 29	11	4,377,000	19	12,425,000
3 weeks	39	$18,659,000	81	$41,710,000

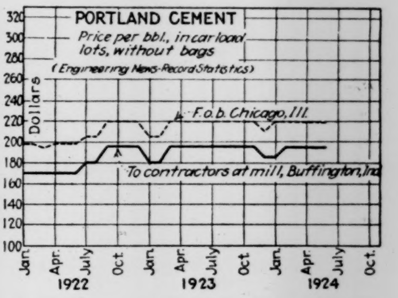
NUMBER OF LARGE JOBS NOW OUT FOR BIDS

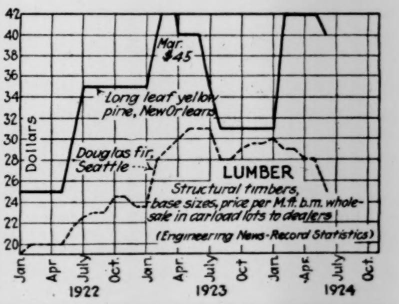
		Public			
Week Ended	Private	All Buildings	Streets and Roads	Water-works and Sewers	All Public
May 15	38	44	98	41	214
May 22	30	41	111	41	248
May 29	24	45	84	35	213

TREND OF STEEL AND PINE LUMBER DOWNWARD

	Quoted on June 5 at	Price was	On
Structurals, Pittsburgh, 100 lb.	$2.10 @2.30	$2.10 @2.35	May 15
Cement, Chi., net bbl.	2.20	2.10	Jan. 24
Pine, N. Y., M.ft.	59.00	60.00	May 29
Fir, San Fran., M.ft.	36.00	38.00	Jan. 24
Common labor, hr.	.56	.55	Apr. 24







PROPOSALS

For proposals Advertised see the pages immediately following the "Construction News" Section.

WATERWORKS

Bids Close		See Eng. News-Record
June 4	Sunflower, Miss.	June 5
June 6	Fulton, N. Y.	May 22
June 6	Garfield Heights, (Cleveland P. O.), O.	May 29
June 6	New York, N. Y.	May 29
June 9	Iron Mountain, Mich.	June 5
June 9	Hawthorne, Calif.	May 29
June 10	Toronto, Ont.	June 5
June 10	Philadelphia, Pa.	June 5
June 10	Hannibal, Mo.	June 5
June 10	New York, N. Y.	June 5
June 11	Coushatta, La.	May 29
June 11	Milwaukee, Wis.	June 5
June 12	Akron, O.	June 5
June 12	Cleveland, O.	May 15
June 12	Athens, Wis.	May 29
June 12	Houston, Tex.	June 5
June 13	Aiken, S. C.	June 5
June 13	East Boston (Boston P. O.), Mass.	June 5
June 14	Tucumcari, N. M. Adv. May 15 to June 5.	May 15
June 17	Glenmore, La.	May 29
June 17	Morganfield, Ky.	June 5
June 17	New York, N. Y. Adv. May 29 and June 5.	June 5
June 18	Union City, Tenn.	June 5
June 18	San Francisco, Calif.	June 5
June 18	Daytona, Fla. Adv. June 5.	June 5
June 18	Quincy, Ill.	June 5
June 18	Jackson, Mich. Adv. June 5.	June 5
June 19	Lewisburg, Tenn.	May 29
June 19	Lewisburg, Tenn. Adv. May 29 and June 5.	May 29
June 21	Oakland, Neb.	June 5
June 24	Tampa, Fla.	May 22
June 24	Jackson, Miss.	June 5
June 24	Morganfield, Ky.	June 5
June 26	Durham, N. C. Adv. May 22 to June 5.	May 29
July 2	Jackson, Mich.	May 29
July 16	Shreveport, La. Adv. June 5.	June 5
July 24	Dallas, Tex.	June 5

SEWERS

Bids Close		See Eng. News-Record
June 4	Cleveland, O.	June 5
June 9	Ames, Ia.	June 5
June 9	Wellesley (Boston P. O.), Mass.	June 5
June 10	Boston, Mass.	June 5
June 10	Royal Oak, Mich. Adv. May 29 and June 5.	May 29
June 11	Baltimore, Md. Adv. June 5.	June 5

Bids Close		See Eng. News-Record
June 12	Inverness, Miss.	May 29
June 17	Bradentown, Fla.	June 5
June 18	Union City, Tenn.	May 15
	Adv. May 15 to June 5.	
June 18	Daytona, Fla.	June 5
	Adv. June 5.	
July 1	St. Louis .Mo.	June 5

WASTE DISPOSAL

June 3	Rutherford, N. J.	June 5
June 9	Sewickley, Pa.	May 29
July 7	Ambridge, Pa.	June 5
	Adv. June 5.	

BRIDGES

May 31	Cozad, Neb.	June 5
June 9	Alabama	May 15
June 9	Perryville, Ill.	May 29
June 9	Northampton, Mass.	June 5
June 10	Florida	May 29
June 10	Montana	May 29
June 10	Missouri	June 5
June 12	Albany, Ore.	May 15
June 12	Guelph, Ont.	June 5
June 16	Beans Mill, W. Va.	June 5
June 18	Philadelphia, Pa.	May 22
	Adv. May 22 to June 5.	
June 20	Tennessee	June 5
	Adv. June 5.	
June 27	Seattle, Wash.	May 15
	Adv. May 15 to June 5.	
June 27	La Grange, Tex.	June 5
	Adv. May 29 and June 5.	
June 30	Alabama	June 5

EXCAVATION, DRAINAGE IRRIGATION

June 9	Corinth, Miss.	May 29
June 11	New York	May 29
	Adv. May 29 and June 5.	
June 11	Clarksdale, Miss.	June 5
June 14	Newbern, Tenn.	May 29
June 17	Lake Village, Ark.	May 22

STREETS AND ROADS

June 3	Omaha, Neb.	June 5
June 3	Clinton, Ia.	June 5
June 4	Baltimore, Md.	June 5
June 4	Boston, Mass.	June 5
June 5	East Boston (Boston P. O.), Mass.	June 5
June 6	Bedford, Ind.	June 5
June 7	Brownstown, Ind.	June 5
June 9	Bainbridge, O.	June 5
June 9	St. Paul, Minn.	May 29
June 9	South Bend, Ind.	May 29
June 9	Alabama	May 15
June 9	Sweetwater, Texas	May 22
June 9	California	May 29
June 9	Hawthorne, Calif.	May 29
June 9	Los Angeles, Calif.	May 29
June 9	Michigan	May 29
June 9	West Allis, Wis.	June 5
June 9	Louisville, Ky.	June 5
June 9	Sioux Falls, S. D.	June 5
June 9	Brookline (Boston P. O.), Mass.	June 5
June 9	Plattsburgh, N. Y.	June 5
June 10	Michigan	May 29
June 10	Montana	May 29
June 10	Birmingham, Ala.	May 22
June 10	Oskaloosa, Kan.	May 22
June 10	Maryland	May 29
	Adv. May 29 and June 5.	
June 10	Ft. Wayne, Ind.	May 29
June 10	Hot Springs, Ark.	May 29
June 10	Kentucky	May 29
June 10	St. Catherines, Ont.	June 5
June 10	South Dakota	June 5
June 10	Massachusetts	June 5
June 10	Fond du Lac, Wis.	June 5
June 10	Jasper, Fla.	June 5
June 10	Columbus, O.	June 5
June 10	New York Mills, N. Y.	June 5
	Adv. June 5.	
June 10	Missouri	June 5
June 10	New York, N. Y.	June 5
June 11	San Antonio, Tex.	June 5
June 11	Columbus, O.	June 5
June 11	Rhode Island	June 5
	Adv. May 29 and June 5.	
June 11	West Roxbury (Boston P. O.), Mass.	June 5
June 11	Brooklyn, N. Y.	June 5
June 12	Atlantic City, N. J.	May 29
June 12	Louisiana	May 29
June 12	Altoona, Pa.	June 5
June 12	Houtzdale, Pa.	June 5
June 12	Louisiana	June 5
June 12	New York, N. Y.	June 5
June 13	Nebraska	June 5
June 13	Ohio	June 5
June 16	Sarasota, Fla.	June 5
June 16	Pennsylvania	June 5
	Adv. May 29 and June 5.	
June 16	New Jersey	June 5
	Adv. May 29 and June 5.	
June 16	Alabama	May 22
June 16	Michigan	May 22
June 16	Akron, O.	May 29
June 16	California	May 29
June 16	Patchogue, N. Y.	June 5
	Adv. June 5.	
June 16	Plainfield, N. J.	June 5
	Adv. June 5.	
June 17	Michigan	June 5
June 17	Morehead City, N. C.	May 29
	Adv. May 29 and June 5.	
June 17	Shenandoah, Pa.	May 29
	Adv. May 29 and June 5.	
June 17	Bartow, Fla.	June 5
June 17	Charleston, Mo.	June 5
	Adv. June 5.	
June 17	Williamson, W. Va.	June 5
June 17	Pennsylvania	June 5
	Adv. May 29 and June 5.	
June 17	Bradentown, Fla.	June 5
June 17	Minneapolis, Minn.	June 5
June 18	Independence, Kan.	May 29
June 18	Pecos, Tex.	May 29
June 18	Quebec	June 5
June 18	Michigan	June 5
June 19	Marion, Kan.	June 5
June 19	Van Buren, Ark.	June 5
June 20	Baird, Tex.	May 29
June 20	Wichita, Kan.	May 29
June 20	Tennessee	Junt 5
June 24	South Highlands, La.	June 5
	Adv. June 5.	
June 24	Howard, Kan.	May 29
June 25	Ansonia, Conn.	June 5
	Adv. June 5.	
June 26	Huntsville, Tex.	June 5
June 26	Newton, N. J.	June 5
	Adv. June 5.	
June 27	Carthage, Mo.	June 5
June 30	Tennessee	June 5
July 1	Lisbon, O.	May 15
July 1	Lisbon, O.	May 22
July 1	St. Louis, Mo.	June 5
July 15	Faribault, Minn.	June 5

INDUSTRIAL WORKS

June 10	Harrisburg, Pa.	May 22
	Adv. May 22 to June 5.	
June 17	Saratoga Springs, N. Y.	May 22

BUILDINGS

June 6	Baltimore, Md.	June 5
June 7	Madison, Wis.	June 5
June 9	Irvington, N. J.	May 22
June 9	Elizabeth, N. J.	May 29
June 9	Long Beach, Calif.	May 29
June 9	Towson, Md.	June 5
June 9	Minneapolis, Minn.	June 5
June 9	Portsmouth, O.	June 5
June 9	Kenosha, Wis.	June 5
June 10	Somerville, Mass.	June 5
June 10	Bridgeton, N. J.	June 5
June 10	Cumberland, Md.	June 5
June 10	New York, N. Y.	May 15
June 10	New York, N. Y.	May 22
June 10	Burlington, Wis.	May 22
June 11	Wilson, Pa	June 5
June 12	Philadelphia, Pa.	June 5
June 12	Woodbury, N. J.	May 29
June 13	Flint, Mich.	June 5
June 14	Brooklyn, N. Y.	May 22
June 14	Detroit, Mich.	June 5
June 15	Dallas, Tex.	May 29
June 15	Hibbing, Minn.	June 5
June 15	Omaha, Neb.	June 5
June 16	Greigsville, N. Y.	May 22
	Adv. May 15 to June 5.	
June 16	Burlington, Wis.	May 29
June 18	Asbury Park, N. J.	May 22
June 20	New York, N. Y.	June 5
June 20	Trenton, N. J.	June 5
June 21	Woodland, Calif.	June 5
June 23	Kenosha, Wis.	June 5
June 23	Delanco, N. J.	June 5
June 24	New York, N. Y.	May 29
June 27	Lubbock, Tex.	May 29
June 28	Kent, O.	June 5
June 30	Ardmore, Pa.	June 5
July 1	Dallas, Tex.	May 22

FEDERAL GOVERNMENT WORK

June 10	Dredging, etc.—Jacksonville, Fla.	May 22
June 10	Hospital Ward—Ft. Sill, Okla.	May 29
June 11	Post Office—Saranac Lake, N. Y.	May 8
June 11	Generating Plants—Pittsburgh, Pa.	May 15
	Adv. May 15 to June 5.	
June 11	Compass Station, etc.—Hog Island, Va.	June 5
June 12	Tower—Philadelphia, Pa.	May 22
June 12	Post Office—Dubois, Pa.	May 22
June 13	Post Office—Greensburg, Pa.	May 29
June 14	Operating Machinery—Florence, Ala.	May 15
	Adv. May 15 to June 5.	
June 16	Breakwater—Dunkirk Harbor, N. Y.	May 22
	Adv. May 22 to June 5.	
June 16	Post Office—Scranton, Pa.	June 5
June 16	Dredging — New York, N. Y.	June 5
June 17	Retaining Wall—Altoona, Pa.	June 5
June 17	Laundry—Tupper Lake, N. Y.	May 29
	Adv. May 29 and June 5.	
June 18	Screens, etc.—Florence, Ala.	May 29
	Adv. May 29 and June 5.	
June 18	Post Office — Salisbury, Md.	May 22
June 18	Dump Scows—Pittsburgh, Pa.	May 22
	Adv. May 22 to June 5.	
June 18	Compass Station—Galveston, Tex.	June 5
June 18	Roads and Gutters—Washington, D. C.	June 5
June 18	Compass Station—Bar Harbor, Me.	June 5
June 19	Post Office—Bluffton, Ind.	May 29
June 20	Steel Boats—Huntington, W. Va.	June 5
June 23	Dredging — Philadelphia, Pa.	June 5
June 23	Bridge—Quantico, Va.	June 5
June 24	Hospital—Rutland, Mass.	May 29
	Adv. May 29 and June 5.	
June 24	Mess Hall, etc.—Gulfport, Miss.	May 29
	Adv. May 29 and June 5.	
June 24	Buildings, etc.—Federal Park, Md.	May 29
	Adv. May 29 and June 5.	
June 25	Bridges—Wilmington, Del.	May 1
June 26	Dredging—Baltimore, Md.	May 29
	Adv. May 29 and June 5.	
June 26	Current Retards—Lexington, Mo.	June 5
June 30	Post Office — Cohoes, N. Y.	June 5
	Adv. June 5.	
July 7	Steamboat Hull—Nashville, Tenn.	June 5
July 9	Radio Building—Destruction Island, Washington	June 5
July 9	Radio Building—Point St. George, Calif.	June 5
July 30	Store House Depot, etc.—Pearl Harbor, H. T.	June 5
Aug. 5	Bridge—Florence, Ala.	May 15
	Adv. May 15 to June 5.	

UNCLASSIFIED

June 7	Louisville, Ky.	Jnue 5
June 10	Plumbing System, etc.—New York, N. Y.	June 5
June 13	Removing Head Block, etc.—Ottawa, Ont.	June 5
June 16	Street Lighting System — Redondo Beach, Calif.	June 5

MATERIAL AND EQUIPMENT

June 3	Underground Cables—Boston, Mass.	June 5
June 10	Concrete, Sand, etc.—Minneapolis, Minn.	June 5
June 10	Road Oil—Montreal, Que.	June 5
June 11	Posts and Brackets—Milwaukee, Wis.	June 5
June 12	Street Flushers and Sprinklers —New Ulm, Minn.	June 5
June 12	Steel Castings—Cement, etc. —New York, N. Y.	June 5
Aug. 29	Dredger—Brisbane, Queensland, Australia	Apr. 10

Where name of official is not given inquiries should be addressed to City Clerk, County Clerk or corresponding official.

Waterworks

PROPOSED WORK

Fla., Homestead—Making plans waterworks. $150,000. C. W. Murray, Miami, engr.

Fla., Lake City—Election June 24, $35,000 bonds extending waterworks. C. R. Horn, city engr.

Fla., Okeechobee—Election June 17, $90,000 bonds, waterworks system, mains, etc.

Tenn., Morristown—Voted $150,000 bonds improving water system and electric light plant. Noted Mar. 6.

Ky., Pikeville — Plans filtration plant with high and low service pumping stations, reservoir, etc. $130,000. J. N. Chester Engineers, Union Bank Bldg., Pittsburgh, Pa.

O., Carrollton — Plans enlarging water supply by putting down 3 deep water wells and constructing 300,000 gal. reservoir, also an electrically operated pumping station, $85,000; also extending 4 and 6 in. mains in various sections of village, $18,000. W. Lambright, member of comn. McClaskey & Reese, Renkert Bldg., Canton, consult. engrs. Noted May 15.

Wis., Janesville—Making plans 4 in. c.i. mains in Yuba and Monroe Sts.; 6 in. c.i. mains in Prospect Ave., Ringold, Court, Monroe, Harding, Washington, Palm, Cherry and High Sts.; 8 in. c.i. mains in Garfield and Milwaukee Aves., St. Marys and Walker Sts.; 12 in. c.i. mains in Sharon St. To exceed $15,000. C. V. Kerch, City Hall, engr.

FILTER PLANT—PROVIDENCE, R. I.

Following are lowest three bids opened by Water Supply Bd., May 21, for filtration system, Contr. No. 30, (A) Winston & Co., 240 Fair St., Kingston, N. Y., (awarded contract); (B) Wilson & English Constr. Co., 50 Church St., New York City; (C) Whiting-Turner Constr. Co., 404 Stewart Bldg., Baltimore, Md. The unit bids were as follows:

	A	B	C
100 acres clearing	$60.00	$150.00	$168.00
20 acres grubbing	200.000	300.00	502.00
8,000 cu.yd. removal of soil	1.00	1.25	2.30
33,000 cu.yd. earth excavation for aqueduct and appurtenance west of station 93+25	1.00	1.50	1.10
20,000 cu.yd. earth excavation for South Basin Dam, south of Station 14+50	2.00	1.75	2.35
2,000 cu.yd. earth excavation in sheeted trench	2.50	7.00	6.20
80,000 cu.yd. earth excavation for all other purposes not included in items 4, 5 and 6	1.30	.90	1.38
15,000 cu.yd. rock excavation where blasting is permitted	3.00	4.00	4.73
1,000 cu.yd. rock excavation where blasting is not permitted	6.00	10.00	7.00
55,000 cu.yd. refilling and embanking of rolled soil	1.50	1.60	2.20
1,000 cu.yd. refilling and embanking compacted by pneumatic tampers	2.00	2.50	3.00
35,000 cu.yd refilling and embanking, other than soil, compacted by rolling	.80	1.00	1.04
215,000 cu.yd. refilling and embanking, other than soil, in dams	.70	.80	.76
30,000 cu.yd. miscellaneous refilling and embanking not included in items 10 to 13	.70	.70	.85
10,000 cu.yd. soil dressing	1.50	1.00	2.30
10,000 cu.yd. screened gravel and broken stone	2.50	2.50	3.65
20,000 cu.yd. riprap	2.00	1.50	3.60
200 cu.yd. stone paving	7.00	6.00	6.90
8,000 sq.yd. bituminous macadam surfacing	1.20	2.00	3.50
46,000 bbl. portland cement	3.00	3.30	3.47
5,500 cu.yd. concrete in filters and other structures composed principally of reinforced concrete	22.00	27.00	19.20
3,500 cu.yd. concrete in mixer, influent control chamber and in aqueduct east of filters	17.00	22.00	15.35
5,000 cu.yd. concrete in aqueduct west of influent control chamber and in settling basin structures	11.00	14.00	13.25
3,000 cu.yd. concrete in cut-off walls and blankets for foundations of dams	9.00	9.00	8.20
180 cu.yd. concrete in wash water gutters for filters, solution boxes etc.	47.00	40.00	62.00
12,000 cu.yd. concrete masonry not included under other items	12.00	16.00	16.10
68,000 sq.ft. mortar lining of steel pipe	.30	.25	.35
Cast iron pipe and special castings, mainly for areators (lump sum).	55,000.00	60,000.00	58,700.00
Cast iron pipe and special castings in filters and for coagulant pipes (lump sum)	60,000.00	69,000.00	60,300.00
Mortar lining of pipe furnished under item 29 (lump sum)	20,000.00	12,000.00	17,500.00
900,000 lb. steel for reinforcing concrete	.06	.06	.0514
1,300,000 lb. furnishing and laying 94-in. steel pipe and appurtenances for aqueduct	.07	.085	.08
850,000 lb. furnishing and laying 60-in. and 48-in. steel pipe and appurtenances	.075	.09	.09
310,000 lb. furnishing 60-in. steel pipe and appurtenances	.06	.07	.072
Lateral pipes in filters (lump sum)	20,000.00	19,000.00	21,670.00
250,000 lb. miscellaneous steel and iron	.10	.10	.11
300 ton caring for and setting valves, gates, meters and other metal work furnished by the City	60.00	30.00	34.50
1,300 cu.yd. brick masonry	33.00	45.00	46.50
Buildings, except garage, not including portions paid for under other items (lump sum)	34,000.00	150,000.00	44,100.00
Garage, not including portions paid for under other items (lump sum)	6000.00	17,000.00	6,400.00
Furnishing and installing heating system (lump sum)	17,000.00	6,000.00	20,100.00
Furnishing and installing plumbing (lump sum)	3,500.00	3,000.00	3,115.00
Furnishing and installing electric wiring (lump sum)	8,000.00	2,000.00	7,430.00
Furnishing and installing car elevator. (lump sum)	8,500.00	7,000.00	7,810.00
Furnishing and installing bucket elevator and conveyor (lump sum).	4,000.00	3,500.00	3,500.00
Furnishing and installing crane (lump sum)	3,000.00	2,500.00	2,100.00
500 lin.ft. 24-in. vitrified pipe	3.00	2.00	3.50
1,000 lin.ft. 12-in. vitrified pipe	1.00	1.50	1.40
500 lin.ft. 8-in. vitrified pipe	.50	1.00	.70
1,000 lin.ft. 4-in. agricultural tile	.35	.50	.35
3,000 lb. copper	.50	.25	.70
2,000 lin.ft. drilling holes in rock and masonry	1.00	1.00	1.44
1,000 cu.yd. grout	6.00	4.00	6.00
1,000 cu.yd. filter gravel	4.00	8.00	15.00
1,800 cu.yd. filter sand	12.00	12.50	16.30
2,000 lin.ft. stone walls	4.00	2.00	3.45
8 acres grassing	50.00	100.00	230.00
Cleaning up (lump sum)	1,000.00	4,000.00	2,000.00
Extended totals	$1,799,210	$2,118,450	$2,147,440

Waterworks (Continued)

Neb., Omaha—Metropolitan Utilities Dist. c/o T. Leisen, making plans 45 mi. 6- to 8-in. water-main and 20 mi. 4- to 6 -in. gas-mains. $500,000. H. Beal, engr.

Mo., Charleston—Making preliminary plans 100,000 gal. steel tank on tower, additional pumping units, new wells, etc. L. T. Bertha, City Hall, engr.

Mo., Portageville—Plans new election soon $40,000 bonds waterworks and distribution. Former election defeated. A. C. Moore, Joplin, engr. Noted May 8.

Mo., Washington—Plans election soon $60,000 bonds, for 250,000 gal. tank on tower, pumps and several miles 6 and 8 in. c.i. mains, fire hydrants, etc. $60,000. W. B. Rollins & Co., Exch. Bldg., Kansas City, engrs.

Okla., Seminole—Making surveys new waterworks incl. well, tower, valves, mains and hydrants. $40,000. Gantt-Baker, 1st Natl. Bank Bldg., Oklahoma City, engrs.

Calif., Anaheim—Voted $110,000 bonds new mains and fire protection extensions. O. E. Steward, city engr. Noted Apr. 3.

Calif., Niles—Spring Valley Water Co., 425 Mason St., San Francisco, having plans prepared rein.-con. reservoir, here. $35,000. G. A. Elliott, ch. engr.

Calif., Oxnard—Plans election to vote on $16,000 bonds, waterworks improvements, principally deep well pumps.

Que., Hull—Plans filtration plant. $175,000. T. Lanctot, city engr.

BIDS DESIRED

Mass., East Boston (Boston, P. O.)—June 13, by Dept. Pub. Wks., City Hall, Boston, mains and sewers in Ashley St. from Breen to Boardman St., here. $25,000. J. A. Rourke, comr.

New York—June 17, by Bd. Water Supply, Municipal Bldg., New York City, furnishing gate valves, etc., for Williamsburg conduit of Catskill aqueduct, Contr. 217. G. J. Gillespie, pres.; adv. E. N.-R. June 5.

N. Y., Brooklyn—June 10, by N. J. Hayes, comr. Water Supply, Gas and Electricity, Municipal Bldg., New York, mains and appurtenances in Fort Hamilton Pkway., Delamere Pl., Howard, Sutter, 9tn, 15th, 16th, M, N and O Aves., 52nd, 54th, 56th, 70th, 81st, East 8th, East 9th, East 27th, East 46th, East 52nd, East 54th, East 55th, East 56th, East 98th, West 1st and West 23rd Sts., here.

Pa., Phila.—June 10, Director Pub. Wks., Room 216, City Hall, 200 tons 16 in. and under c.i. mains, etc., in Margaret and Lackawanna Sts., Contr. 673; 8 sootblowers for 8 Bodenhousen water tube boilers at Queen Lane Pumping Station, Contr. 678; 12,220 ft. c.i. laterals, Contr. 684; 500 kw. generator together with electric works, Contr. 685. Private plans.

S. C., Aiken—June 13, by City Comn. 600,000 gal. steel stand pipe for water plant. H. Sudlow, supt.

S. C., Inman—Town asked bids for May 30, water and sewerage systems. This report was published in May 22 issue under Texas.

Fla., Daytona—June 18, by L. E. Hough, city clk., extending mains. Harrington, Howard & Ash, Orear Leslie Bldg., Kansas City, Mo., consult. engrs. Noted Feb. 14 under "Sewers."

La., Shreveport—July 16, by W. T. Mayo, comr. Pub. Utilities, City Hall, extending waterworks and sewerage systems. N. J. Chester Engineers, Union Bank Bldg., Pittsburgh, Pa., engrs.; adv. E. N.-R. June 5.

Tenn., Jackson—June 24, by Mayor and Comrs. at office of City Recorder, high duty pumping engine, S. C. Lancaster, consult. engr.; adv. E. N.-R. June 5.

Tenn., Union City—June 18, by City Clerk, waterworks supplies, incl. air compressor, 55 lb. pressure, with 3 phase 220 volt motor, 1 domestic supply pump, 750 g.p.m. two boiler feed pump, 40 g.p.m., 1 fire service pump 1,500 g.p.m., 1 feed water heater of c.i. open type 3 superheaters for 208 hp. boilers and 3 rein.-con. settling tanks, 14 x 70 x 13 ft., 6 x 30 x 12 ft., and 10 x 50 x 12 ft. C. H. Jenks, Union City, engr. Noted Dec. 20.

Ky., Hazard—Taking bids 6,800 ft. 2- to 6-in. class B c.i. pipe, 40 fittings, 25 valves, 16 fire hydrants, 5.000 lb. lead, 200 lb. jute, etc.; 800 ft. 14 in. c.i. sewer pipe, 10 connections, 6,060 ft. 6- to 12-in. vitr. sewers, 30,000 brick, 30 manhole covers, 3 lamphole covers, 25 road box covers, etc. Shield Eng. Co., Hazard, engrs.

Ky., Morganfield—June 24, by W. Young, mayor and City Council, at office of A. F. Waller, city clk., river intake, pumping station, filter plant, pumping equipment and 6 mi. 8 in. c.i. or wood stave pipe line. Gannett, Seelye & Fleming, 236 Randolph Bldg., Memphis, Tenn., engrs.; adv. E. N.-R. June 6.

O., Akron—June 12, by M. P. Tucker, supt. Water Works, 2 m.g. coagulation basin, at water works plant. $100,000.

Mich.—Iron Mountain—June 9, by Bd. Water Comrs., 1 m. g. capacity rein.-con. equalizing reservoir flat slab roof type, 100 ft. square, 13 ft. average depth, 43,000 lb. reinforcing, etc. Hoad, Decker, Shoecraft & Drury, Ann Arbor, engrs.

Mich., Jackson—June 18, furnishing c.i. pipe, fittings, valves and lead, etc. J. E. Whittaker, city mgr.; adv. E. N.-R. June 5.

Ill., Quincy—June 18, by W. R. Gilston, city supt., and Mead & Seastone, engrs., Journal Bldg., Madison, Wis., Clearwater reservoir, rein.-con., 20 ft. diameter, 1 m.g. capacity. Noted Mar. 13.

Wis., Milwaukee—June 11, by Central Bd. Purchases, City Hall, furnishing one 48 in., two 54 in. and four 30 in. gate valves.

Mo., Hannibal—June 6, by Burns & McDonnell Eng. Co., engrs., 402 Interstate Bldg., Kansas City, 676 tons c.i. pipe and specials, switchboard, and 9 motor driven centrifugal pumps as follows: three 2,500 g.p.m. raw water, one 3.150 g.p.m. and one 4,200 g.p.m. filtered water, one 500 g.p.m. wash water and three 500 g.p.m. booster pumps.

Tex., Cisco—Taking bids concrete filter plant and standpipe, 40 x 75 ft. $50,000. Elrod Eng. Co., 3124 Elm St., Dallas, engrs. Noted Apr. 17.

Tex., Dallas—July 24, by City Comn., reservoir at Garza, also viaduct across reservoir for Denton-McKinney Rd. $5,000,000. E. A. Kingsley, city engr. J. C. Nagle and R. A. Thompson, Municipal Bldg., consult. engrs.

Tex., Houston—June 12, by H. L. Washburn, aud. Harris Co. Navigation Dist., Court House, 100,000 gal. water tank, tower, mains, etc., Ship Channel. $20,000. E. A. Tucker, Court House, engr.

Calif., Long Beach—Taking bids 70,000 ft. 30 in., 50,000 ft. 20 in., 32,000 ft. 8 in. and 70,000 ft. 6 in. water pipe. R. D. Van Alstine, city engr.

Calif., Mission Beach—City Trustees taking bids, 27,945 lin.ft. 6 in., 5,470 lin. ft. 10 in., 6,781 lin.ft. 12 in. cement concrete pipe, 865 lin.ft. 8 in. c.i. pipe, 40,186 lin.ft. trench and laying sewers from 4 to 12 ft. deep, 87 concrete manholes, 40 concrete drop manholes, 46 dead ends with cross, 6 flush tanks, 3 pumping stations, etc. F. A. Rhodes, San Diego, engr.

Calif., San Francisco—June 18, by Bd. Pub. Wks., flexible joint c.i. pipe for submarine portions Hetch Hetchy Aqueduct, Bay Crossing Division, Hetch Hetchy Project, for City and San Francisco Co. $200,000. M. M. O'Shaughnessy, city engr. Noted May 15.

Ont., Toronto—June 10, by W. W. Hiltz, mayor, City Hall, portable air compressor Tender 47, and 2 air pumps Tender 48, for waterworks. R. C. Harris, city engr.

Waterworks (Continued)

BIDS RECEIVED

N. Y., Brooklyn — N. J. Hayes, comr. Water Supply, Gas & Electricity, Municipal Bldg., New York, mains in Hegeman, Prospect, Flatland, Lott, Bedford, Riverdale, Sheffield Aves., etc., here, from G. V. Cornell, Rosebank, S. I., $11,664. Noted May 22.

N. Y., Long Island City—N. J. Hayes, comr. Water Supply, Gas & Electricity, Municipal Bldg., New York, mains in Skillman Ave., Buckley and Packard Sts., here, from S. Galiucci, 38 Railroad Ave., Corona. Noted May 22.

N. Y., Long Island City—N. J. Hayes, comr. Water Supply, Gas & Electricity, Municipal Bldg., New York, mains in Chauncey, Calamus and Clermont Sts., etc., here, from Kennedy & Smith Inc., 93 Amity St., Flushing, $6,999. Noted May 22.

N. Y., New York—N. J. Hayes, comr. Water Supply, Gas & Electricity, Municipal Bldg., mains in Arnow, Adee, Barnes and Paulding Sts., from Melrose Constr. Co., 230 East 162nd St., $5,600; Longfellow, Sheridan and Teller Aves., from Beaver Eng. & Contg. Co., 51 Chambers St., $9,910. Noted May 22.

Calif., Glendale — See "Streets and Roads."

Que., Montreal — Tunnel under Lachine Canal at Wellington St. to carry three 48 in. water conduits, from D. G. Loomis & Sons, St. Patrick St., $274,780. Noted Apr. 10.

CONTRACTS AWARDED

Mass., Brighton (Boston P. O.)—C. J. Garvin, Water Div., Pub. Wks. Dept., City Hall, Boston, laying and relaying mains in Cleveland Circle, Commonwealth Ave., Southerland and Colonial Rds., here, to De Christaforo Bros. Co., Glendover St., Roxbury, $16,913. Noted May 29.

Mass., Roxbury (Boston P. O.) — See "Sewers."

N. Y., Brooklyn — N. J. Hayes, comr. Water Supply, Gas & Electricity, Municipal Bldg, New York, mains in 21 streets and avenues, to Paladino Contg. Co., 437 East 120th St., New York, $10,389, and in U and Danforth Aves., to Gripp Contg. Co., 85 Webster Ave., Long Island City, $12,615. Noted May 15.

N. Y., New York—N. J. Hayes, comr. Water Supply, Gas & Electricity, Municipal Bldg., mains in Bronx Blvd., Unionport Rd., Sexton and Lamport Places, Adee, Barnes, Bissel, Cruger, East Tremont, Hobart, Monticello Roberts, Wilcox and Young Aves. East 212th and Victor Sts., Bronx Boro., to Knight & Demicco Inc., 448 East Tremont Ave., $14,899. Noted May 15.

Pa., Phila.—Bureau Water, Dept. Pub. Wks., City Hall, supply pipe and fittings to Central Fdry. Co., 41 East 42nd St., New York City, $99,560, valves and fire hydrants, to A. P. Smith, East Orange, N. J., $17,460, Contr. 668; Contr. 669, to J. J. McHugh, 1617 Race St., $105,665; Contr. 680 to Service Supply Corp. 20th and Venango Sts., $9,210. Noted May 29.

Md., Baltimore — Bd. Awards, Pumping Station 2, Contr. 213, incl. c.i. pipe lines, sludge pumping station and sludge well, 9 gate valves, 65 tons c.i. pipe and special castings, etc., to D. W. Glass, 2000 30th St., $30,500. Noted May 15.

La., Alexandria—Rein.-con. reservoir to Caldwell Bros., 816 Howard St., New Orleans $56,250. Noted May 8.

O., Cleveland—For 1,730 ft. 36 in. c.i. main in Ridge Rd. Sect. 2, to J. Kalill & Jackson Co., Bangor Bldg., $39,222. Noted May 29.

O., Cleveland—Mains in Woodland Ave., Sect. "M," 31 tons 60 ft. c.i. or steel pipe, 11,000 cu.yd. earth excav., to Winterbottom & Connelly, 2644 Southington Rd., $106,235. Noted May 15.

Mich., Ecorse—Detroit Ecorse Land Co., 11,739 ft. 6-16 in. c.i. mains in Oakwood Blvd., to W. Blanck & Co., 40 Seven Mile Rd., Detroit, $49,500.

Ill., Vandalia—For 100 tons 4 and 6 in. c.i. pipe, to United States Cast Iron Pipe & Fdry. Co., 122 South Michigan Ave., Chicago, $6,000; laying c.i. pipe, to J. W. and W. C. Debrun, Assumption, $3,170.

Wis., Milwaukee—Dept. Pub. Wks., c.i. mains in various streets, to Wenzel & Henoch, 498 27th St., $20,800. Noted May 29.

Minn., Winona—For 13,398 ft. 4- to 14-in. Class B c.i. pipe, 28 brick manholes, 15,400 lb. c.i. specials, 28 gate valves, 17 fire hydrants, to S. Johnson, 318 East 3rd St., Duluth, $27,608. Noted May 8.

Mo., Chillicothe—Waterworks improvements: boiler room, etc., to G. P. Rientjes Co., Kansas City, $25,000; boilers, to Power Machine Co., 505 Interstate Bldg., $12,637; concrete smokestack, to Webe Chimney Co., Chicago, $6,000; chain grate stoker, etc., to Combustion Engineering Corp., 1002 Coca Cola Bldg., Kansas City, $4,156. Noted May 8.

Tex., Dallas—For 200 tons 6 in. c.i. pipe, to U. S. Cast Iron Pipe & Fdry. Co., Scollard Bldg., $0.946 per lin.ft.

Tex., Jacksonville—Will lay 4- to 6-in. main extensions in various additions, by day labor. $15,000.

Neb., Howell—For 7,205 lin.ft. 4 in. c.i. pipe, fire hydrants, valves, fittings, etc., to Asflund Constr. Co., Tecumseh.

Calif., Compton — See "Streets and Roads."

Que., Montreal — Water main culvert under Canadian Natl. Ry. tracks at Atwater Ave., to Atlas Constr. Co., Belmont St., $24,680. Noted May 15.

B. C., Vancouver — Provincial Government, Victoria, new process (de la Vand) water system 1,600 ft. 8 in., 12,500 ft. 6 in. and 1,600 ft. 4 in. c.i. pipe in University site, to Canadian Fairbanks Morse Co., 798 Betty St., $20,000, also 5,000 ft. 6 in. pipe to City $4,500, and 2,000 ft. 6 in. and 25 ft. 4 in. to Pacific Mills Ltd., Ocean Falls, $2,400.

Sewers

PROPOSED WORK

Mass., Medford—Plans sewers in various streets. $42,000. C. Cannock, city engr.

Fla., Dunedin—Plans storm and sanitary sewers. $25,000.

Fla., Homestead—Making plans sewerage system. $150,000. C. W. Murray, Miami, engr.

Tenn., Jackson—Bd. City Comrs. takes bids in about 60 days 15,000 lin.ft. 6- to 12-in. sewers. To exceed $25,000. E. R. Dike, city engr.

O., Columbus—Making plans 9,207 ft. 6- to 12-in. sewers in alley east Cleveland Ave., $21,861; 3,600 ft. 8- to 6-in. sewer in Olentangy St., $5,881; 1,440 ft. 6- to 18-in. combined sewer in alley west Lockbourne Ave., $2,768; 1,100 ft. 8- to 10-in. sewer in Lockbourne Rd., $2,985; 5,495 ft. 8 in. sewer in Ryan Ave., $14,392; 750 ft. 6- to 10-in. sanitary sewer in Chittenden Ave., $2,016. R. H. Simpson, city engr.

O., Columbus—Franklin Co. making plans laying 13,255 ft. 8- to 12-in. sewers and 28 manholes in Sewer Dist. Clinton 2, Highland Garden Areas, approximately $30,000. E. G. Bradbury, 262 South High St., county engr.

Ind., Evansville—Bd. Pub. Wks. having revised plans prepared shortening length, etc., Howard Roosa Trunk Sewer. $400,000. J. D. Saunders, city engr. Noted Apr. 24.

Wis., Wausau—Soon takes bids 32,390 lin.ft. 10- to 18-in. vitr. sewers in various streets. To exceed $25,000. B. C. Gowen, City Hall, engr.

Mo., Portageville — Plans new election soon, $30,000 bonds for sewers. Former election defeated. Noted May 8.

Tex., Dallas—Making plans 8 mi. 18- to 24-in. vitr. sewer in White Rock Creek. $125,000. E. A. Kingsley, city engr.

Okla., Seminole—Making surveys new 7 mi. sanitary sewerage system and disposal plant. $38,000. Gantt-Baker Co., 1st Natl. Bank Bldg., Oklahoma City, engrs.

Calif., Alhambra—Plans election to vote on $30,000 bonds, storm drains, sewers, etc. T. B. Downer, city engr.

Calif., Exeter—Plans sewerage system with septic tank.

Calif., Fresno—Had plans prepared 6 in. vitr. sewers with lampholes and concrete manholes, etc., Fairmont addition. To exceed $25,000. W. Stranahan, city engr.

Calif., Laguna Beach — Laguna Beach Sanitary Dist. voted $95,000 bonds for sewers and disposal plant.

Ont., London—Making plans extending sewers in Florence St. area. $62,000. W. P. Near, city engr.

BIDS DESIRED

Mass., Boston—June 10, by Dept. Pub. Wks., City Hall, concrete paving and sewers in South Sanitary Yard, Albany St., etc. J. A. Rourke, comm. $25,000.

Mass., East Boston (Boston P. O.)—See "Waterworks."

Mass., Wellesley (Boston P. O.)—June 9, by Sewer Comrs., Taylor Block, Wellesley Sq., 5,600 ft. cast iron and vitr. sewers in various streets, 670 cu.yd. ledge excav. W. H. Blood, chn. sewer commissions.

N. Y., New York — See "Streets and Roads."

Md., Baltimore — June 11, by Bd. Awards, City Hall, sanitary sewers and appurtenances in Dists. 1-B, 33-C and 47-D, Sanitary Contr. 212. S. Purcell, ch. engr.; adv. E. N.-R. June 5.

Fla., Bradentown—June 17, by R. K. Van Camp, engr., Bradentown, storm and sanitary sewers, in various streets, for city. $26,000.

Fla., Daytona—June 18, by L. E. Hough, city clk., extending storm and sanitary sewers. Harrington, Howard & Ash, Orear Leslie Bldg., Kansas City, Mo., engrs. Noted Feb. 14.

La., Shreveport—See "Waterworks."

Ky., Hazard—See "Waterworks."

Ia., Ames—June 9, 12,600 lin.ft. 8 in. vitr. sewers, 35 manholes, 3,350 lin.ft. 10- to 15-in. storm sewers, 22 catch basins and 8 manholes. $25,000. A. B. Maxwell, city clk.

Ark., Van Buren — See "Streets and Roads."

Mo., St. Louis—July 1, by Bd. Pub. Serv., Room 208, 5,500 ft. 10- to 24-in. vitr. clay sewer, etc. in Galisa Creek Dist. Sewer 20, $20,525; Southern Sewer, 540 ft. rein.-con. pipe. $53,000. W. W. Horner, city engr.

BIDS RECEIVED

N. Y., Long Island City—M. E. Connolly pres. Queens Boro., Queens Subway Bldg., from Kennedy & Smith Inc., 93 Amity St., Flushing, sewer in National Ave., etc., $4,011; from Green Contg. Co., 734 Vernon Ave., Astoria, sewer in Lake St., Way and Roosevelt Aves., $3,115; from Johnson & McHugh, 37 Britton Ave., Elmhurst, sewer in 146th St. (Brewster Ave.), $9,185; from J. Gallo, 203 Division St., Brooklyn, sewer in 95th St., A $32,345, B $30,732 and sewer in Sandol St. A $70,328, B $60,136; from D. A. Gross, 8515 Fulton St., Woodhaven, sewer in 92nd St., $10,372. Noted May 22.

O., Cleveland—Cuyahoga Co., 23,800 ft. 8- to 27-in. tile sewer in Impvt. 54, from D. Zullo, 706 The Arcade, $117,795.

Ill., Astoria—City, May 29, 2,650 lin.ft. 10-in. and 24,900 lin. ft. 8 in. sewer, etc., from V. E. Taylor & Co., Webster Groves, Mo., $33,574. Engrs. est. $41,235. Noted May 22.

Neb., Omaha—Sewer in Grace St. from 15th St. to Missouri River, from Jones Eng. & Constr. Co., 315 Courtney Bldg., $338,347. Engrs. est. $400,000. Noted Feb. 22.

Calif., Glendale — See "Streets and Roads."

Calif., La Habra—La Habra Sanitation Dist., (a) vitr. (b) concrete sewers, from Janes Contg. Co., South West Life Bldg., Dallas, Tex., 1,515 ft. 15 in. (a) $1.31 (b) $1.18, 2,843 ft. 12 in. (a) $1.02 (b) $0.92, 4,907 ft. 10 in. (a) $0.86 (b) $0.74, 1,814 ft. 8 in. (a) $0.70 (b) $0.65, all foregoing 0 to 6 ft. trench, 42 deep manholes and casting $58, disposal plant $13,370, total using (a) $29,209, (b) $27,763. Noted Apr. 24.

Que., Montreal—From Toussaint Bros., 2353 St. Dennis St., 2,200 ft. 12 in. tile sewer in Gouin Blvd., $5,594, 3,960 ft. 2 x 3 brick sewer in 12th Ave. from Rosemount Blvd. to Belanger St., $25,744, and 1,926 ft. from Massom St. to Rosemount Blvd., $11,450, 1,282 ft. 2 x 3 brick in Lafond St. $10,851, 1,899 ft. 2 x 3 brick in 13th Ave. $11,907, 1,743 ft. 2 x 3 brick in 14th Ave. $11,106.

CONTRACTS AWARDED

Mass., Roxbury (Boston P. O.) — Pub. Wks. Dept., City Hall, Boston, sewers and water works in Harrishoff St. from Warren St. to Hunbolt Ave., here, to J. Williams & Co., 58 Wales Pl., Dorchester, $20,807. Noted May 29.

Pa., Phila.—Dept. Pub. Wks., Bureau Surveys, City Hall, branch sewers to J. J. McHugh, 1617 Race St., Aikens St., $2,262, Georges Lane $10,555, Magnolia St. $6,376, Mitchell St. $7,691, Oxford St. $15,577, Trinity St. $360,366; to O'Neill Co., 127 East Mermaid Lane, Broad St. $2,546, Edgemoor Rd., $11,178, Judson St. $1,652, Linmore St. $4,669, Malvern Ave. $37,329; to W. H. Garson, 5033 Brown St., Cobbs Creek Pkwy. $11,602, Flanders Rd. $8,670; to A. Jaffala, 139 South 56th St., Dicks Ave. $19,963; to P. Ventresco, 6325 Chew St., Durham St. $8,841, Edna St. $5,097, Haines St. $16,370; to A. J. Henderson, 5807 Chew St., Dupont St. $244,380, Middleton St. $65,788; to J. Perna, Jr., 316 North 65th St., 57th St. $21,543, Sheridan St. $736, Spring St. $4,688; to McCoal Constr. Co., 5033 Duffold St., Janney St. $5,126, Weikee St. $422,315. Noted May 8.

Pa., Phila.—To O'Neill Co., 127 East Mermaid Lane, branch sewers in Dudley St. $5,255, L St. $3,297, M St. $3,820, Newkirk St. $7,767, Pierce St. $4,205, Sepviva St. $3,103, 7th St. $8,340, 16th, Buest, Theodore and Edgewood Sts., $14,433, 67th St. $17,496, 71st St. $2,089, Tulip St. $5,479, Weikel St. $2,983; to F. T. Buchins, Jr., 16th, 4050 Kensington Ave., Granite St. $2,317; to E. Pascuzzi, 601 Lincoln Blvd., Luzerne St. $6,432, M St. $7,713, McCallum St. $11,232; to J. J. McHugh, 1617 Race St., Manayunk Ave. $12,182; to W. H.

Sewers (Continued)

Yetman, 601 Lincoln St., Parrish St. $6,549, Rittenhouse St. $13,734, Smick St. $16,774, 22nd St. $5,085; to V. Pontarelli, 523 Race St., 16th St. $6,287; to A. De Sandos & Son, 3906 North 5th St., Sedgley Ave. $6,930; to A. J. Henderson, 5807 Chew St., 12th St. $5,334.

Ala., Birmingham—For new sanitary and storm sewers up 4th Ave. from 10th to 19th St., sanitary sewers on 19th St. from Morris to 8th Aves., North, branches in alleys from 19th to 26th Sts., to Mackintosh Co., 1st National Bank Bldg., Oklahoma City, Okla., $251,609. Engrs. est. $266,536. Noted May 15.

O., Cleveland—Cuyahoga Co., 17,000 ft. 8- to 48-in. brick sewer in Impvt. 300, to Haddad Mall Co., Schofield Bldg., $130,075. Noted May 8.

Mich., Detroit—Dept. Pub. Wks., Joann Ave. Extension Sewer, to Anderson & Campbell, Penobscot Bldg., $19,801; Harper Ave. Arm East of Ashland Ave. Sewer, to W. Blanck Co., 40 Seven Mile Rd. $53,916. Noted May 29.

Mich., Pleasant Ridge—For 13,127 ft. 12- to 24-in. vitr. sewers in Woodward Ave. and Ten Mile Rd. Dist., to Rennie & Dibble, 11565 Oakwood Blvd., Detroit, $46,000.

Wis., Milwaukee—Metropolitan Sewerage Comn., 508 Market St., concrete extensions to Delaware Ave. Sewer, to Wenzel & Henoch Co., 498 27th St., $69,227; sewers in Vliet St., Chicago Rd. and Delaware Ave. extensions, to G. E. Zimmermann, 3402 Grand Ave., $26,186, $136,673 and $124,262 respectively, also sewer in East Milwaukee Ave. in Wauwatosa, $8,017.

Kan., Wichita—Sewers in various Dists., incl. 9,359 ft. 8- to 12-in. vitr. clay pipe, 50 manholes, etc., to A. A. Dobson Co., Wichita.

Calif., Compton — See "Streets and Roads."

Calif., Los Angeles—See "Streets and Roads."

Calif., Los Angeles — Bd. Pub. Wks., Main St., storm and sanitary sewer, incl. 9,000 lin.ft. double barrel rein.-con. rectangular section 6 ft. 9 in. high and width varying from 6 ft. 5 in. to 9 ft. 7 in. for each section, 8,000 ft. rectangular rein.-con. section from 5 ft. high by 6 ft. 7 in. wide to 6 ft. 9 in. high by 8 ft. 4 in. wide, 12,500 ft. rein.-con. rectangular section from 3 ft. 5 in. by 5 ft. wide to 5 ft. high by 5 ft. 3 in. wide, 9,800 ft. non-reinforced arch section from 5 ft. 11 in. wide high by 7 ft. wide to 6 ft. 6 in. high by 7 ft. wide, 11,100 ft. circular non-reinforced concrete pipe from 60 to 70 in. diam., 59,000 ft. rein.-con. pipe from 24 to 66 in., 23,000 ft. cement pipe from 12 to 21 in., 20,000 ft. cement pipe sanitary sewer from 6 to 12 in., 787 catch basins, 179 manholes, to P. R. Gadd, Van Nuys Hotel, $2,706,000. Noted May 15.

Ont. Toronto—York Twp. constructing 8 mi. Keele-Dufferin Sewer, vitr. tile and concrete pipe 8 in. up, to J. H. McKnight Constr. Co., 88 St. David St., $216,567.

Ont., Windsor — Extending sewers in Campbell Ave. Dist., to Merlo, Merlo & Rae, Walkerville, $230,191. Engrs. est. $230,000.

B. C., Point Grey—Installing sewers in University site and subdivision, to F. J. Dawson, 1905 16th Ave. W., Vancouver, $90,000; furnishing 1,000 ft. 24 in., 3,000 ft. 18 in., 6,000 ft. 12 in. and balance in 6, 8 and 10 in. concrete sewer pipe, to British Columbia Concrete Co. Ltd., Oak and Goodmurphy Sts., Marpole, $15,000.

Waste Disposal

BIDS DESIRED

Pa., Ambridge—July 7, at office A. W. Johns, boro mgr., garbage incinerators and chimney; adv. E. N.-R. June 5.

CONTRACTS AWARDED

Md., Baltimore—Bd. Awards, 3 story, 55 x 173 ft., brick disposal plant, plain foundation, 28th and Sisson Sts., to Price Constr. Co., Maryland Trust Bldg., $103,900. Noted May 22

O., Euclid—For 30 ton incinerator plant, to Decarie Incinerator Co., 817 McKnight Bldg., Minneapolis, Minn., $35,200. Noted May 15.

Bridges

PROPOSED WORK

Fla., Sarasota — Sarasota Co. election June 24, $45,000 bonds, bridge over Little Sarasota Bay at Caseys Key; $12,000, over Cowper Slough; $40,000 over Lttle Sarasota Bay near Stickney Point; $16,000, over Whitaker Bayou; $40,000, over Miakka River, in Sect. 21.

Ohio—See "Streets and Roads."

Tex., Brownsville—Cameron Co. making plans 340 ft. steel and concrete bridge with one 80 ft. steel span, concrete pile trestle approach, concrete piers, etc., over Arroya Colorado. $45,000. W. O. Washington, co. engr. Noted May 22.

Calif., Los Angeles—Making plans Sherman Way bridge near Tujunga, Wash., $130,000; Chatsworth bridge across San Fernando Creek, $25,000; Universal City Bridge, $40,000; South Sherman Way bridge, $45,000; Little Tujunga bridge, $30,000. J. A. Griffin, city engr.

Calif., Oakland — See "Streets and Roads."

Calif., Santa Barbara — Making plans viaduct, 56 ft. roadway, to connect Carilio and Milpitas Sts. $60,000 to $75,000. G. D. Morrison, city engr.

BIDS DESIRED

Mass., Northampton—June 9, by Bd. Pub. Wks., City Hall, removing present bridge over Mill River on West St., and constructing on present substructure, two 56 ft. span rein.-con. arch bridge, 33 ft. wide, with bracketed sidewalk on one side. T. F. McGrath, chn.

W. Va., Beans Mill—June 16, by E. Phillips, clk. Upshur Co., Buckhannon, 112 ft. concrete span bridge, 14 ft. roadway across Buckhannon River and 50 ft. concrete span bridge, 14 ft. roadway across the mill race, here.

Alabama—June 30, by State Hy. Comn., Montgomery, repairing and painting 860 ft., 3 span steel bridge, across Alabama River, at Selma, Dallas Co., incl. 110,000 lb. structural steel, removing and relaying 1,250 sq.yd. creosoted wood block floor and plank sub-floor on fixed and swing spans, 15,000 ft. creosoted timber, etc. $25,000. W. S. Keller, highway engr.

Tennessee—June 20, by State Dept. Hys. & Pub. Wks., Nashville, one 32 ft., one 40 ft. and one 24 ft. rein.-con. span girder with concrete piers, between Brighton and Covington, Federal Aid Project 31-B, Tipton Co., thirty 26 ft., one 30 ft. and two 24 ft., rein.-con. span bridge, on concrete piles, also one rein.-con. span bridge between Gibson Co. and Jackson, Federal Aid Project 29-B, Madison Co. J. G. Creveling, highway comr.

Tennessee—June 20, by State Dept. Hys. & Pub. Wks., Nashville, 2 bridges over Caney Fork River, 1 on Federal Aid Project 203-A, Warren and White Counties, and other on Federal Aid Project 163-B, Dekalb Co. J. G. Creveling, highway comr.; adv. E. N.-R. June 6. Noted Apr. 24.

Neb., Oakland — June 21, by E. J. Wickstrom, city clk., concrete settling basin and filtration plant and equipment. $20,000. Prince & Nixon Eng. Co., 501 Peters Trust Bldg., Omaha, engrs.

South Dakota—June 10, by St. Hy. Comn. Pierre, 23 ft. viaduct on F. A. P. 170 B, Lake Co. 6,581 lbs. reinforcing, etc., 36 and 48 ft. viaduct on F. A. P. 175, Hand Co., 19,249 lbs. reinforcing and 71,174 lbs. structural steel; 102 ft. bridge on F. A. P. 162 B, Haakon Co., 19,650 lbs. reinforcing and 67,886 lbs. structural steel; 23, 34, 130 and 144 ft. bridges on F. A. P. 163 Butte & Lawrence Counties, 59,447 lbs. reinforcing and 180,750 lbs. structural steel, also 3 box culverts; bridge on F. A. P. 149 B and C, Spink Co., 90,854 lbs. reinforcing and 84,706 lbs. structural steel, etc. F. D. Hudgins, ch. engr.

Missouri—June 10, by State Hy. Dept., Jefferson City, two 20 ft. rein.-con. slab spans, etc., over Wolf Creek and two 20 ft. rein.-con. slab spans, etc., over Wet Fork Creek, both Wayne Co.; one 25 ft. rein.-con., etc., deck girder span, etc., over North View Branch, and one 80 ft. steel truss span, etc., over Niaugua Creek, both Webster Co.; two 10 ft. rein.-con. slab spans, etc., over stream and one 80 ft. steel truss, etc., over Cooper Creek, both Henry Co.; twenty-two 25 ft. I-beam spans, etc., over over flow Grand River and Shoal Creek, both Livingston Co.; one 40 ft. rein.-con. deck girder span, etc., over Hooney Creek and one 40 ft. rein.-con. deck girder span, etc., over Little Honey Creek, both Lawrence Co.; two 10 ft. rein.-con. slab spans, etc., over stream and two 16 ft. rein.-con. slab spans over Dry Branch, both St. Francois Co.; one 40 ft. rein.-con. deck girder span, etc., over Creek, and two 10 ft. rein.-con. slab spans etc., over stream, both Warren Co. B. H. Piepmeier. chief engr.

Tex., Carthage — See "Streets and Roads."

Tex., Dallas—See "Waterworks."

Tex., La Grange—June 27, by G. Hausler, aud. Fayette Co., bridge over Colorado River. J. P. Ehlinger, co. judge; adv. E. N.-R. June 5.

Ont., Guelph—June 12, by J. Beatty, c/o Wellington Co. Council, Court House, for following bridges: Arnold Bridge 68 ft. 6 in., deck Warren truss bridge, lot 1, concession 17, Peel Twp., alternate prices for concrete and wooden floor and for repairs to existing abutments; Atkinson Bridge at lot 8, concession 16, Nichol Twp., 80 ft. concrete truss bridge and 1 concrete abutment; Fox Bridge on Co. Rd. 33 in the village of Drayton, 10 ft. concrete slab; McCrory Bridge on town line of Peel and Nichol, 4½ mi. from Alma; Lindsay Bridge, lot 9, concession 8, West Garafraxa, 15 ft. concrete beam span; Rogers Bridge, lot 24 concession 6, Erin Twp., 10 ft. concrete slab span. A. W. Connor, 1005 Royal Bank, Toronto, engr.

BIDS RECEIVED

New Jersey—State Hy. Dept., Trenton, two 61 ft. concrete encased plate girder spans, plain concrete pier and abutments for 30 ft. roadway, removing existing bridge and constructing temporary bridge, etc. over Musconetcong River, M. P. 20 on Route 5, Sect. 2A, Warren and Morris Counties, from R. T. and C. D. Stewart Constr. Co., Easton, Pa., $66,480; two 95 ft. concrete encased plate girder spans, one 34 ft. I-beam and eighteen 20 ft. rein.-con. approach spans, 4 rein.-con. approach spans, all on concrete piers and abutments for 30 ft. roadway rein.-con. and asphalt paving, constructing temporary bridge and removing existing bridge, etc. over North branch of Raritan River and creek at M. P. 23.6 and 29.5 Route 9, Sect. 8, Somerset Co., from F. W. Schwiers, 90 West St., New York City, 92.5% of (eng. est. $220,861). Noted May 15.

Pa., Phila.—See "Streets and Roads."

North Carolina — State Hy. Comn., Raleigh, **(S. P. means State Project)** rein.-con. bridges and culverts on S. P. 891, Yancey Co., from J. M. Ogden, Ervington, Va., $30,971; S. P. 888, Yancey Co., from Booze, Boyde & Co., Route 1, Raleigh, $28,707; S. P. 617, Catarrus Co., from J. S. Bowers, Whiteville, $37,062; S. P. 432, Granville Co., from J. A. Peterson, Montgomery, Ala., $36,614; S. P. 422, Franklin Co., from Kuehn, Englehardt & Thorns, Kinston, $34,725; S. P. 580 B, Randolph Co., from Dameron & Sparling, Smithfield, $45,630; S. P. 415, Durham Co., from J. A. Peterson, Montgomery, Ala., $57,678; S. P. 212, Craven Co., from Pittsburgh-Des Moines Steel Co., Virginia Ry. & P. R. Bldg., Richmond, Va., $45,902; S. P. 134, Gates Co., from Grathmey-Saddler Co., Norfolk, Va., $32,172. Noted May 8.

Tennessee — State Dept. Hys. & Pub. Wks., Nashville, one 100 ft. steel and nineteen 26 ft. concrete spans over Harpeth River, Federal Aid Project 205, Cheatham Co., from Montgomery & Parker Constr. Co., Rockport, Ind., $62,050.

Ohio—See "Streets and Roads."

Wis., New Richmond—State Hy. Comn. at office city clk., City Hall, Willow River Bridge, two 45 ft. 9 in. deck concrete girder spans, 30 ft. roadway and two 6 ft. sidewalks, here, St. Croix Co., from J. E. Hinman, Glenwood City, $23,834. Noted May 22.

Arkansas—State Hy. Comn., Little Rock, about 37 truss and I-beam bridges, 20 to 200 ft. wide, on North Arkansas Rd., impvt. Dist. 2, Independence, Izard and Fulton Counties, 5,429 cu.yd. excav., 3,077 cu.yd. concrete, 4,420 lin.ft. piling, 152,428 lb. reinforcing, 341,500 lb. structural steel in truss bridges and 728,373 lb. structural steel in I-beam bridges, also raising and repairing one 133 ft. truss bridge, from W. H. Dennison, Cushman, $162,260.

Tex., Clarendon—Donley Co., 9 span, 312 ft. steel truss bridge with I-beam approaches, concrete piers, etc., over Salt Fork Red River, from Austin Bridge Co., 1813 Clarence St., Dallas, $17,958. Noted May 8.

CONTRACTS AWARDED

Pa., Harrisburg — For 15 span, open spandrel type, etc., rein.-con. arch bridge over Susquehanna River at junction of Juniata and Susquehanna Rivers, about 12 mi. above here, to Vang Constr. Co., Cumberland, Md.

Pa., Phila.—See "Streets and Roads."

Miss., Greenville—Washington Co., 330 ft. bridge with two 90 ft. and one 150 ft. steel truss spans, on Federal Aid Project 166, to O. A. Hanna, Jackson. Noted Apr. 3.

Ohio—See "Streets and Roads."

Minn., Benson—See "Streets and Roads."

Kan., Troy—Doniphan Co. Bridge 6, 100 ft. long 20 ft. wide, on Federal Aid Project 169, to A. L. Cook, Ottawa, $26,457, engrs. est. $25,552.

Neb., Silver Creek—Merrick Co., c/o W. L. Stanley, Central City, 1,000 ft. riveted steel bridge with ten 100 ft. spans over Platte River, south of here, to Western Bridge & Constr. Co., 748 Peters Trust Bldg., Omaha, $92,000. Engrs. est. $95,000.

Bridges (Continued)

Tex., Corpus Christi—City and Nueces Co. Navigation Dist. 1, combination railroad and highway bridge across Bay, to Wisconsin Bridge & Iron Co., North Milwaukee St., Milwaukee, $400,000. Noted May 29.

Tex., San Angelo—Tom Green Co. 340 ft. steel span and concrete girder bridge over Middle Concho River, 12 mi. west of here, to Austin Bridge Co., 1813 Clarence St., Dallas, $29,108. Engrs. est. $30,000. Noted May 15.

Calif., Newberg (Fortuna P. O.) — See "Railways" under California.

Dams

PROPOSED WORK

Tex., Cotulla—International Great Northern Ry., Palestine and La Salle Co. plan rein.-con. dam across Nueces River, 50 ft. high. $3,000,000. Private plans.

Calif., Los Angeles—Had plans prepared Pacoima Dam, concrete, constant angle arch type, 375 ft. high, incl. 7,000 cu.yd. loose and 5,000 cu.yd. solid rock excav., 130,000 cu.yd. plain and 5,000 cu.yd. rein.-con., 310 lin.ft. tunnel excav., concrete tunnel lining, one 4 x 7 and one 30 in. sluice gates, one 30 in. needle valve, 375 ft. high with 520 ft. chord length and 102 ft. wide at base, etc. J. W. Reagan, ch. engr. Los Angeles Flood Control Dist.

Calif., Wheatland — See "Excavation, Drainage, Irrigation."

CONTRACTS AWARDED

Okla., Oklahoma City—Dam extension and 26 flood gates, to Smith Bros., Amer. Exch. Bldg., Dallas, Tex., $220,000. Engrs. est. $200,000. Noted May 8.

Ont., Island Falls via Cochrane — See "Industrial Works."

Railways

PROPOSED WORK

California — Southern Pacific Co., 65 Market St., San Francisco, had plans prepared replacing present rails with 141 lb. rails, and paving portion Central Ave., in Alameda, 2 course 7 in. asphaltic concrete, (first unit of work). $67,000. G. W. Boschke, ch. engr.

Quebec—Montreal Tramways Co., Craig St. W., Montreal, plans constructing 14.937 mi. tracks on concrete slab foundation, standard 6 x 8 ties, 2 ft. centers, steel tie rods, 6 ft. centers, electric welded joints, etc., in 19 streets and avenues, $915,500; also 1.6 mi. 115 lb. rails in Notre Dame St. $120,000, 1.805 mi. in Ontario St. $125,000, and 2.397 mi. in St. Denis St. $113,000. P. A. N. Seurot, ch. engr.

CONTRACTS AWARDED

Illinois—Illinois Power & Light Corp., Illinois Merchants Bank Bldg., Chicago, will build street railway from Galesburg to Lincoln Park (Chicago P. O.), by day labor. $35,000.

California—E. J. Dodge Co., 16 California St., San Francisco, 4 mi. logging railroad (rails and tiles furnished by owner), incl. pile and timber bridge, at Newburg, to Englehart Constr. Co., Eureka. To exceed $25,000.

Excavation, Drainage, Irrigation

PROPOSED WORK

Indiana—Vanderberg Co. (Evansville), Spencer Co. (Rockport) and Warrick Co. (Boonville), making surveys, widening, deepening and straightening, approximately 10 mi. channel changes of Pigeon Creek from Chandler to Evansville. E. E. Watts, Evansville, drainage engr. $300,000.

Tex., Edinburg—Hidalgo Co. election June 13, $1,260,000 bonds, flood control project, reclamation, protecting levees, irrigation system, etc. Address County Commissioners.

Ariz., Buckeye—Buckeye Water Conservation & D. D. plans election to vote on $850,000 bonds for weir, canals, etc. Former election defeated. C. K. Fox, I. W. Hellman Bldg., Los Angeles, Calif., engrs. Noted Apr. 3.

Calif., Elsinore—Ladera Irrigation Dist., c/o Olmsted & Gillelen, engrs., Hollingsworth Bldg., Los Angeles, having plans prepared irrigating 7,000 acres land, incl. 2 small reservoirs, pipe lines, etc., here. Noted Feb. 7.

Calif., Red Bluff—G. B. Champlain, c/o W. A. Fish, atty., Red Bluff, plans irrigating 1,500 acres, incl. 14,600 ft. canals, 11 ft. wide on top, 5 ft. wide on bottom, 2 ft. deep; 2 centrifugal pumps, one 8 sec.ft. and one 3 sec.ft. capacity, 35 ft. lift, operated by 100 hp. electric motors. $26,000.

Calif., Wheatland—Camp Far West Irrigation Dist., plans election $125,000 bonds, concrete storage dam, 55 ft. high, 230 ft. long on top, also 2 mi. main and system of distributing canals.

BIDS DESIRED

Miss., Clarksdale—June 11, by Bd. Levee Comrs. for Yazoo-Mississippi delta, new 6,500 ft. levee at Polks Landing, levee section 24, 280,000 cu.yd. excav. W. L. Head, ch. engr.

BIDS RECEIVED

Wis., Bear Creek—Farm Drainage Bd. 3, H. W. Wieckert, secy., 816 Summer St., Appleton, tile and open ditch excav., here, from J. Corbett, Babcock, 100,000 cu.yd. earth excav. at $0.105 per cu.yd. and 25,000 cu.yd. rock excav. at $2 per cu.yd. Engineers est. $15,000. Noted Apr. 24 under "Appleton."

CONTRACTS AWARDED

N. Y., Buffalo—Commissioner Pub. Wks., Municipal Bldg., dredging Buffalo Inner Harbor for maintenance of channel, to Great Lakes Dredge & Dock Co., Morgan Bldg., $0.41 per cu.yd.

Miss., Yazoo City—Silver Creek D. D., drainage ditches, levee, etc., to S. A. Redding, Louisville. Engrs. est. $200,000.

Ill., Paxton — Comrs. Ford Co., Sibley D. D., main ditch, 119,149 cu.yd. excav., branch 1, 3,575 lin.ft. hard shale tile, etc., to W. F. Sternberg Co., Piper City, $17,822. Noted May 8.

Minn., Minneapolis — Bd. Park Comrs., City Hall, dredging in Powderhorn Lake, 15th Ave. S. and 34th St., 140,000 cu.yd. excav., to Minneapolis Dredging Co., 2429 University Ave. S. E., $0.305 per cu.yd. Noted May 15.

Tex., Corpus Christi—City and Nueces Co. Navigation Dist. 1, deep water port project, 3,100,000 cu.yd. excav., to R. A. Perry, Galveston, $473,150. Noted May 29.

Tex., Ft. Worth — Tillar Estate, 1030 Elizabeth Blvd., excavation for 3 story and basement, 100 x 100 ft., brick and concrete store for Monnig Dry Goods Co., Main St., to J. T. Taylor, Burkburnett Bldg., $25,000. Noted May 8 under "Buildings."

Calif., Westley—Bertschmann Ranch, to J. Phillips, 637 Santa Ray Ave., Oakland (by dragline), 184,000 cu.yd. levee construction $0.135, 60,000 cu.yd. main canal excav. $0.135, 10,000 cu.yd. drainage canal excav. $0.135; to J. T. Moorehead, Stockton (by teams), 80,000 cu.yd. upland canal excav. $0.13 to G. Murray, Modesto, (by teams), 40,000 cu.yd. bottom land canal excav. $0.18, 8,000 cu.yd. main canal excav. $0.17.

Streets and Roads

PROPOSED WORK

Mass., Medford (Boston P. O.)—Plans constructing 12 new streets, widening Salem St. and reconstructing part of Boston and Riverside Aves. $163,000.

Mass., Springfield — Dept. Pub. Wks., plans Boulevard from Locust St. northwest to Columbus Ave., near Marble St. $125,000. F. C. Parker, chn.

N. Y., Mt. Kisco—High School—Village sold $225,000 bonds for addition to high school. F. W. Andrews, chn. Bd. Educ.

N. J., Camden—Soon takes bids widening, curbing, guttering and 8 in. rein.-con. paving approximately 6,800 ft. Park Ave., in Pensaucken Twp., 20 ft. wide.

N. J., Rahway — Plans to pave West Grand, Maple, Central, Pierpont and Elizabeth Sts., asphalt. $266,500. F. L. Foulks, 191 East Milton Ave., mayor.

N. J., Trenton—Plans asphalt paving Stuyvesant Ave. and Cottage alley. $133,700. J. E. English, City Hall, engr.

Maryland—State Rds. Comn., Baltimore, rejected bids May 20, paving 4.6 mi. highway along Eastern Ave., Baltimore Co., Contr. B-63. Will readvertise. J. N. Mackall, chn. Noted May 27.

Fla., Center Hill—Plans paving various streets, vitr. brick and Finley method, Type B. $60,000.

Fla., Dunedin — Plans paving various streets, vitr. brick or equivalent. $30,000.

Fla., Kissimmee—Osceola Co., election June 28, $100,000 bonds, improving highway from Narcoossee to Orange Co. ilne. J. E. Johnson, Kissimmee, probably engr.

Fla., Lake City—Election, June 24, $100,000 bonds, grading, paving and curbing streets. C. R. Horn, city engr.

Fla., Okeechobee — Election June 17, $50,000 bonds, paving various streets.

Fla., Sarasota — Sarasota Co., election June 24, $50,000 bonds, paving with macadam, alternate proposals, Tamiami Trail, from Manatee Co. line to Venice; $40,000, 7.5 mi. Siesta Rd.; $192,000, 13 mi. Miakka Rd.; $25,000, Crescent Beach, Stickney Bridge and Blackburn Point Rds.; $240,000 hard surfacing 13.5 mi. Sugar Bowl Rd.; $33,000, 3.5 mi. Lockwood Ridge Rd.; $40,000, 3 mi. Bradentown Rd.; $39,000, 3.1 mi. Venice By-Way; $30,000, 3.5 mi. Verna Rd.; $27,000, Hancock-Stickney Point Rds.; $33,000, 4.1 mi. Bee Ridge Rd.; $77,000, bituminous on shell or rock, 11.3 mi. Venice-Englewood Rd.; $31,000, 2.5 mi. hard surfacing and 8.6 mi. bituminous surface treatment, Madison and Englewood-Miakka Rds. C. G. Benson and W. M. Mason, Sarasota, engrs.

Ala., Birmingham—City Comn. takes bids about July 1, 2 in. bitulithic paving on 6 in. concrete, about 10 blocks Arkadelphia Rd., Bankhead Highway, 16th, and 12th Aves. West, 9th, 3rd, 11th and Court St. West, 30 ft. A. J. Hawkins, city engr.

Ala., Haleyville—Soon takes bids guttering, paving streets and sidewalks. $75,000.

Ala., Troy — Soon takes bids paving streets. $188,000 bonds sold.

Tenn., Jackson—Takes bids about June 20, paving 80,000 to 90,000 sq.yd. various streets. $500,000. E. R. Dike, city engr. Noted May 15.

Tenn., Knoxville — City and property owners plans to expend $1,064,597 improving streets. City's share of cost $531,778. A. Brownslow, city mgr.

Ohio—Dept. Highways and Pub. Wks., Columbus, cancelled bids opened May 23, grading, bridging and paving 3.331 mi. Sect. "G" Columbus-Cincinnati Rd., Butler Co.; 1.85 mi. Sect. "C" Ottawa-Findlay Rd., Hancock Co.; 3.274 mi. Sect. "F-2" Canton-Massillon Rd., Stark Co., bituminous macadam, asphalt or tar, bituminous concrete or brick. Noted May 15.

Ohio—Dept. Highways and Pub. Wks., Columbus, cancelled bids which were to be opened May 23, grading, bridging and paving 3.331 mi. Sect. "G" Columbus-Cincinnati Rd., Butler Co., and 1.85 mi. Sect. "C" Ottawa-Findlay Rd., Hancock Co., bituminous macadam, asphalt, tar, bituminous concrete or concrete. Noted May 15.

O., Columbus — Making plans grading, laying necessary water services, sewer connections and paving with **(a)** brick **(b)** concrete **(c)** asphalt 2,123 ft. alley north Livingston Ave., 12.6, 16.6 and 20 ft. wide, **(a)** $16,908 **(c)** $14,972; 1,014 ft. alley north Mithoff St., 18 ft., **(a)** $3,951 **(b)** $3,519; 444 ft. Ludlow St., 21 ft., **(a)** $5,182 **(b)** $3,898 **(c)** $4,205; 727 ft. 2nd alleys north Main and West 9th Sts., 20 ft., **(a)** $5,500 **(b)** $4,894; 758 ft. 4th Ave., 24 ft., **(a)** $12,017 **(c)** $10,007; 424 ft. alley north Granville St., 15 and 17 ft. wide, **(a)** $2,807 **(b)** $2,474; 940 ft. Jefferson Ave., 32 ft., **(a)** $9,367 **(c)** $7,192; 1,620 ft. Columbian and Washington Aves., 24 ft., **(a)** $28,932 **(b)** $13,740 **(c)** $24,872; 688 ft. alleys north Bryden Rd., 16 ft., **(a)** $4,366 **(b)** $3,899; 7,503 ft. Mound St., 46 ft., **(a)** $151,994 **(c)** $114,062; 1,205 ft. alley north Stewart Ave., 21 ft., **(a)** $15,471 **(b)** $11,556 **(c)** $12,760; 15,205 ft. alley north Woodruff Ave., 23.6 ft., **(a)** $14,182 **(b)** $12,537; 402 ft. alley north Mt. Pleasant Ave., 12 ft., **(a)** $1,841 **(b)** $1,610; 561 ft. City Park Ave., 26 ft., **(a)** $10,227 **(c)** $7,465; 303 ft. alley north 1st Ave., 10 ft., **(a)** $1,159 **(b)** $1,024; 8,352 ft. Nelson Rd., 36 ft., **(a)** $196,035 **(c)** $150,633. R. H. Simpson, city engr.

O., Lisbon—Columbiana Co. soon takes bids improving 3.105 mi. Wellsville-Salineville Rd., in Yellow Creek Twp., 16,392 ft. grading, bridges and culverts. $42,000. L. C. Kirk, Lisbon, engr.

O., New Lexington — Perry Co. plans paving Intercounty Highway 355, $75,000; 3 mi. Intercounty Highway 10, $60,000. State to appropriate $37,500 on each project.

O., New Philadelphia—Plans widening 7 mi. New Philadelphia-Uhrichsville Rd., from 16 to 20 ft. $25,000. G. E. Arnold, city engr.

O., New Philadelphia—Making plans repaving West High St. and Bway., brick on heavy concrete. $99,462. G. E. Arnold, New Philadelphia, engr.

O., Sebring—Plans repaving with brick 0.5 mi. 15th St., 40 ft. $40,000.

O., Struthers—Soon takes bids improving 0.75 mi. Terrace St. and about 1 mi. Spring St., 30 ft. $30,000 and $40,000 respectively.

O., Youngstown — Plans resurfacing Front St. $35,000. G. Turner, city engr.

Minn., South St. Paul—Election June 16, $150,000 bonds, paving various streets.

Wis., Wausau—Soon takes bids paving Chicago Ave., Adams, Plumer and Lemke Sts., 7,500 sq.yd. rein.-con., brick or vibrolithic concrete, etc. To exceed $25,000. B. C. Bowen, City Hall, engr. Noted Apr. 24.

Ia., George—Plans paving, etc., about 10 blocks various streets. $40,000. W. E. Buell & Co., 205 Davidson Bldg., Sioux City, engrs.

Minnesota—State Hy. Dept., St. Paul, withdrew bids which were to be opened May 27, grading 5.5 mi. State Project 8-42,

Streets and Roads (Continued)

Federal Aid Project 302 between Lengby and east Polk Co. line, 132,611 cu.yd. excav. $32,000. Will readvertise. Noted May 15.

Kan., Chanute—Soon takes bids grading and paving 16 blocks South Evergreen and South Central Aves., approximately 25,000 sq.yd. 3 in. vertical fibre brick on present rock base with asphalt filler.

Neb., University Place—Having plans prepared 3½ blocks asphaltic concrete paving, 80 ft. wide in Dist. 22. $55,000. Grant, Fulton & Letton, Lincoln, engrs.

Wyo., Cheyenne—Plans grading, curbing, guttering, etc., Pershing Blvd., McComb, Cribbon, Dey, Dillon, Snyder, Reed, Bent, O'Neil, Thomes, Pioneer, Capitol, Central, Warren, House, Evans, Van Lennen, Maxwell, Seymour, Pebrican, Russell, Morrie, Bradley, Duff and Alexander Aves., 15th to 32nd St. inclusive, Ames, Talbot, Richardson and Cosgriff Courts. C. C. Carlisle, city engr.

Mo., Charleston—Mississippi Co. soon takes bids grading and concrete surfacing Pinhook Special Rd. Dist. $30,000. Swank-Tanner Eng. Co., Charleston, engrs.

Ark., Russellville—Soon takes bids grading and surfacing with 2 in. asphalt on 5 in. concrete or solid concrete, concrete curb and gutters approximately 75 blocks in Impvt. Dist. 4. $140,000 to $163,000. F. Ragsdale, Russellville, engr.

Tex., Brownsville—Making plans and soon takes bids permanent paving 17 blocks various streets. $50,000. Address City Engineer.

Tex., Center—Shelby Co. making plans grading and gravel surfacing 11.45 mi. State Highway 35, 16 ft. $60,000. Titus & Dillon, co. engrs.

Tex., Floresville—Wilson Co. making plans hard surfacing 2½ mi. San Antonio-Cuero Rd., 18 ft. $25,000. F. E. Hess, co. engr.

Tex., Jasper—Jasper Co. making plans grading and gravel surfacing 9.09 mi. State Highway 8, 16 ft. $150,000. C. P. Hunter, co. engr.

Tex., Palestine—Anderson Co. plans grading and rein.-con. paving 10.28 mi. State Highway 19, 18 ft. $357,000. E. W. Davis, co. engr.

Tex., San Antonio—Making plans widening and paving West Nueva St. between Flores and Laredo Sts., 13 ft. on each side donated by property owners. $25,000. I. Ewig, city engr.

Tex., San Marcos—Voted $25,000 bonds permanent paving various streets. Address F. Erck, mayor. Noted May 8.

Tex., Sweetwater—Nolan Co. making plans grading and surfacing 15.5 mi. State Highway 1, 18 ft., bituminous on macadam. $300,000. J. A. Focht, co. engr.

Tex., Texarkana—Bowie Co., Precinct 1 voted $490,000 bonds improving roads. State and Federal Aid appropriated $78,000 additional. O. B. Pirkey, New Boston co. judge.

Oklahoma—Miller Twps., voted $65,000 grading and graveling 85,000 sq.yd. road from Marland in 101 Ranch to Ponca City through Miller Twp., Kay Co. J. M. Page, Capitol Bldg., Oklahoma City, highway engr.

Okla., Enid—Garfield Co. voted $1,000,000 bonds grading and paving 99 mi. roads, 18 ft. J. M. Page, Capitol Bldg., Oklahoma City, engr. Noted May 1.

Okla., Okmulgee—Okmulgee Co. voted $400,000 bonds concrete surfacing 22.5 mi. road and graveling 9.2 mi. roads, 18 ft. H. C. King, Court House, engr. Noted May 8.

Okla., Okmulgee—Okmulgee Co. voted $400,000 bonds concrete surfacing 30 mi. Henryetta Rd., 18 ft. Noted May 1.

California—State Highway Comn., Sacramento, rejected bids grading 5.2 mi. road between South San Francisco and Bway. Sta., San Mateo Co. Noted May 1.

Calif., Alameda—See "Railways" under California.

Calif., Alhambra—Plans election to vote on $240,000 bonds paving Main St. and portions Valley Blvd. T. B. Downer, city engr.

Calif., Bakersfield—Kern Co. had plans prepared improving Rd. 269, Sect. 2, 71,191 sq.ft. 7 in. concrete or asphaltic concrete paving, etc. J. R. Thornton, co. surv.

Calif., Chico—Had plans prepared improving Normal Ave., Chestnut St., etc., 575,200 sq.ft. 5 in. asphaltic concrete, 3,168 sq.ft. 5 in. concrete, 10,000 sq.ft. concrete walks, 581,040 sq.ft. grading, etc. C. M. Ennis, city engr.

Calif., Fairfield—Making plans paving approximately 2 mi. road near Suisun; also Merchan, Sacramento Sts., etc., approximately 450,000 sq.ft. willite. F. A. Steiger, city engr.

Calif., Fresno—Had plans prepared improving Vagedes Ave., 67,959 sq.ft. grading, 50,063 sq.ft. asphaltic concrete, 7,411 sq.ft. concrete gutters, 1,216 lin.ft. concrete curb, 3,337 sq.ft. walks, etc. W. Stranahan, city engr.

Calif., Hawthorne—Making plans on 2½ in. asphalt concrete grading, curbing, guttering, laying sidewalks and paving portions of Eucalyptus and Truro Aves., etc., 1½ in. willite. To exceed $25,000. City Eng. Dept., engrs.

Calif., Hayward—Sunset Blvd. and Soto St., had plans prepared grading, curbing, guttering and paving 1½ in. asphalt on 3½ in. asphaltic concrete. $26,000. J. B. Holly, town engr.

Calif., Los Angeles—City and Los Angeles Co. plan repaving San Fernando Blvd., 1½ in. warrenite bitulithic on 7 in. concrete. $350,000. (City will pay $250,000 of total cost.) G. W. Jones, co. rd. comr.

Calif., Martinez—Contra Costa Co. had plans prepared paving highway from Giant Rd. to San Pablo Tank Farm, 7,200 ft. asphaltic concrete; 1½ mi. Concord-Avon Rd. and 1½ mi. Lone Tree Rd., both asphaltic macadam. R. R. Arnold, co. surv.

Calif., Marysville—Making plans paving approximately 15 blocks various streets. To exceed $25,000. W. M. Meek, city engr.

Calif., Oakland—Had plans prepared improving Fillmore St., 17,700 sq.ft. grading, 10,225 sq.ft. oil macadam, 1,175 sq.ft. concrete gutter, bridges; Washington St., 64,200 sq.ft. grading (fill and light cut), 1,020 lin.ft. concrete curb, 17,510 sq.ft. oil macadam, 2,350 sq.ft. concrete gutter, bridges. W. W. Harmon, city engr.

Calif., Ontario—Plans paving and storm culverts approximately 15 blocks various streets. $50,000.

Calif., Placerville—Making plans paving various streets, 5 in. concrete. $25,000. C. H. Wildman, Placerville, engr.

Calif., Porterville—Had plans prepared improving intersections Doris and Sunnyside Aves., etc., 53,989 sq.ft. grading, 53,989 sq.ft. 5 in. concrete paving, 2,475 lin.ft. concrete curbs, etc. F. W. Pease, city engr.

Calif., San Francisco—Rincon Hill Regrade Project, Inc., E. H. Wiel, interested, 25 1st St., plans regrading Rincon Hill Area. $3,500,000. M. M. O'Shaughnessy, city engr.

Calif., San Leandro—Plans widening Babcock Ave. $150,000 to $200,000.

Calif., Santa Cruz—Making plans improving 4 mi. Cliff Dr., 18 ft. Bids will probably be asked on various types of paving. H. S. Williams, city engr. Noted Sept. 27.

Calif., Santa Rosa—Sonoma Co. making surveys improving highway between Bodega Rds. and Bodega Corners. To exceed $25,000. E. A. Peugh, co. surv.

Ont., Brampton—Plans concrete paving West, Railroad, Frederick and Elizabeth Sts. $28,000. C. M. Corkett, City Hall, engr.

Ont., Niagara Falls—Making plans asphalt paving Morrison, McRae and Queen Sts. $80,000. W. J. Seymour, city engr.

Ont., Ottawa—Ottawa Suburban Roads Comn., soon takes bids asphalt paving, 17,000 sq.yd. Bowesville Rd. $70,000. A. K. Hay, 279 Carling Ave., engr.

Ont., Toronto—Soon takes bids grading Cottingham Rd., Glen Edyth, Boulton and Roycroft Drives, 150,000 cu.yd. excav., $75,000. R. C. Harris, city engr.

Que., Montreal—Plans 2,042 ft. concrete pavements on 5 streets $13,685, 5,776 ft. asphalt pavements on 10 streets $62,309, 20,889 ft. concrete sidewalks on 21 streets $112,481, 30,995 ft. concrete slab on 20 streets $30,468. E. Gauthier, asst. city clk.

Que., Montreal—Plans 7,300 sq.yd. asphalt and 1,500 sq.yd. granite block paving in Moreau St. $65,930, 5,600 sq.yd. asphalt in Belanger St. $31,710, 9,000 sq.yd. asphalt, in Ontario St. $56,070, 4,300 sq.yd. asphalt in Craig St. $28,340, 8,450 sq.yd. asphalt in Buboeuf St. $49,600, 6,900 sq.yd. asphalt in Richardson St. $39,275. T. A. Terreault, City Hall, engr.

Que., Verdun—Plans asphalt paving ½ mi. Wellington St., to Lasalle Rd., 66 ft. wide. $110,000. H. Hadley, city engr.

BIDS DESIRED

Massachusetts—June 10, by Dept. Pub. Wks. Div. of Highways, State House, Boston, 43,231 ft. bituminous concrete patching and widening hignway in Reading and North Reading, Middlesex Co., and Andover, Essex Co. To exceed $25,000. W. F. Williams, comr.

Mass., Boston—See "Sewers."

Mass., Brookline (Boston P. O.)—June 9, by Bd. Selectmen, Town Hall, paving about 1 mi. Beacon St., from Coolidge Corner to St. Marys St. E. L. McEttrick, secy. To exceed $25,000.

Mass., Charlestown (Boston P. O.)—June 4, by Dept. Pub. Wks., City Hall, Boston, granite block paving Chelsea St. from Vine to Chelsea Bridge, here. $25,000.

Mass., East Boston (Boston P. O.)—June 5, by Dept. Pub. Wks., Boston, granite block paving Border St. from North Ferry to William J. Kelly Sq., here. J. A. Rourke, Boston, comr.

Mass., West Roxbury (Boston P. O.)—June 11, by Dept. Pub. Wks., City Hall, Boston, sheet asphalt or bitulithic paving Grove St. from Centre to Washington St., here. $31,000. J. A. Rourke, comr.

Rhode Island—June 11, by State Bd. Pub. Rds., Providence, reconstructing 3.54 mi Ashaway relocation of Hopkinton-Westerly Rd., in Hopkinton, Contr. 2402, Federal Aid Project 20, Div. A; 2.05 mi. Fall River-Tiverton main Rd., in Tiverton, Contr. 2403, Federal Aid Project 21, Div. A; adv. E. N.-R. June 5.

Conn., Ansonia—June 25, by Bd. Pub. Wks., City Hall, reconstructing rein.-con. flooring and other appurtenant work thereto on bridge at Maple St. V. B. Clark, city engr. Adv. E. N.-R.

N. Y., Brooklyn—June 11, by E. Riegelmann, boro pres., Boro Hall, paving and repaving with asphalt on 6 in. concrete, Farragut Rd., Bushwick and Pitkin Aves., Malta, Osborn, Troutman, 85th and Marginal Sts., grading, curbing and flagging East 12th, East 15th, and West 9th Sts.

N. Y., Buffalo—June 5, by Commissioner Pub. Wks., paving or repaving Minnesota Ave. and various other streets, vitr. brick, or asphalt. To exceed $30,000. C. E. P. Babcock, Municipal Bldg., engr.

N. Y., New York—June 10, by H. Bruckner, pres. Bronx Boro, 3rd and Tremont Aves., repaving with granite blocks intersection of Boston and West Farms Rds. and Tremont Ave., Boscobel Ave., East 175th, East 165th and East 163rd Sts., also sewers and appurtenances in John, Crosby and Riverdale Aves., West 230th, West 256th Sts., and Middletown Rd.

N. Y., New York—June 12, by J. Miller, pres. Manhattan Boro, Municipal Bldg., grading, etc., Chittenden Ave.; grading, curbing and flagging West 186th St., and altering and improving sewer in Cedar St., widening and repaving with sheet asphalt Madison Ave.; curbing, recurbing, flagging, reflagging and paving with sheet asphalt Haven Ave.; repaving with granite block 44th St.

N. Y., New York Mills—June 10, by Bd. Village Trustees, 24,000 sq.yd. rein.-con. pavement, etc. W. G. Stone & Son, 31 Mann Bldg., Utica, engrs.; adv. E. N.-R. June 5.

N. Y., Patchogue—June 16, by Village Bd., Syndicate Bldg., improving Terry St. A. L. Wicks, clk.; adv. E. N.-R. June 5.

N. Y., Plattsburgh—June 9, by Plattsburgh Centenary Comm. filling and grading Thomas McDonough Memorial Monument, 12,500 cu.yd. mixed material, 7,500 cu.yd. top soil. Engrs. est. about $25,000. J. F. O'Brien, chn.

New Jersey—June 16, by State Hy. Comn., Trenton, constructing Route 2, Sect. 6, Burlington Co., Route 3, Sect. 11, Camden Co., and Route 9, Sect. 15, Union Co. A. L. Grover, secy.; adv. E. N.-R. June 5.

N. J., Newton—June 26, by Bd. Chosen Freeholders Sussex Co., improving Main St. in Hamburg Boro. H. Snook, co. engr.; adv. E. N.-R. June 5.

N. J., Plainfield—June 16, by Common Council, 9,400 sq.yd. paving, 4,870 lin.ft. curb and gutter. J. J. Carroll, city clk.; adv. E. N.-R. June 5.

Pennsylvania—June 16, by Dept. Hys., Harrisburg, constructing 16 projects, totaling 44 mi. in various counties, and June 17, constructing 15 projects, totaling 54 mi. in various counties, either bituminous on concrete or rein.-con. P. D. Wright, Harrisburg, secy. highways; adv. E. N.-R. June 5.

Pa., Altoona—Jun 12, by City Comrs., rein.-con. paving 48,000 sq.yd. 20 streets. H. J. Baum, city engr.

Pa., Houtzdale—June 12, by Boro Council, C. G. Dickey, secy., 7,502 lin.ft. bituminous macadm tarvia penetration paving together with grading, curbing, guttering and scarifying Good and Brisbin Sts.

Maryland—June 4, by Bd. Awards, grading, curbing and 6,560 sq.yd. sheet asphalt paving streets listed in Contr. 258-NA; grading 22,000 cu.yd. streets listed in Contr. 257-OA. R. K. Compton, 214 East Lexington St., chn. Paving Comn.

W. Va., Williamson—June 17, by Court Mingo Co. shaping and constructing Pigeon Creek-Trace Creek Rd., 18 ft., 4.4 mi. Project 18-A, 23,000 lin.ft. clearing, 36,300

Streets and Roads (Continued)

cu.yd. excav., 610 lin.ft. 15- to 24-in. rein.-con. pipe, or 360 lin.ft. 15 in. standard strength vitr. clay pipe, 250 lin.ft. 15- to 24-in. double strength vitr. clay pipe, 3.6 mi. Project 18-B, 19,500 lin.ft. clearing, 24,300 cu.yd. excav., 620 lin.ft. rein.-con. pipe or 360 lin.ft. standard strength vitr. clay pipe, 260 lin.ft. 18- to 24-in. double strength vitr. clay pipe, 3.1 mi. Project 18-C, 16,500 lin.ft. clearing, 25,200 cu.yd. excav., 500 lin.ft. 15- to 24-in. rein.-con. pipe or 200 lin.ft. 15 in. standard strength vitr. clay pipe, 300 lin.ft. 15- to 24-in. double strength vitr. clay pipe, bids will be received on 3 projects separately, also on same as a whole; 7 mi. Burch-Trace Creek Rd., 18 ft., Project 27, 36,900 lin.ft. clearing, 78,600 cu.yd. excav., 960 lin.ft. 15- to 24-in. rein.-con. pipe or 470 lin.ft. 15 in. standard strength vitr. clay pipe, 400 lin.ft. 15- to 24-in. double strength vitr. clay pipe. L. G. Bray, pres.

Fla., Bradentown—June 17, by R. K. Van Camp, engr., Bradentown, paving Bear, Oak, Stewart, Pearl and Kentucky Sts., $35,000; Lee, Alma, Orange and Stockbridge Sts., $35,000; Earl Court, Woodrow, New Jersey, Leonard and Chestnut Sts., $35,000, all vitr. brick on sand, alternate proposals.

Fla., Jasper—June 10, by Hamilton Co. Comn., constructing 6½ mi. Rd. 2, clearing 27 acres, 65,532 cu.yd. excav., shaping, etc., 76,001 sq.yd., 4,412 cu.yd. sand, 2,940 cu.yd. clay, etc. $30,000.

Fla., Sarasota—June 16, by City Council, paving various streets, 16,400 sq.yd. asphalt block and 8,000 lin.ft. concrete curbing. $40,000.

Louisiana—June 12, by State Hy. Dept., Reymond Bldg., Baton Rouge, gravel surfacing 9.3 mi. State Project 379 C, and 5.4 mi. State Project 379 D, Opelousas-Oakdale Highway, also 6.67 mi. State Project 380 B, all in Evangeline Parish. J. M. Fourmy, ch. engr.

Louisiana—June 12, by State Hy. Dept., Reymond Bldg., Baton Rouge, gravel surfacing 10 mi. Sect. A, 9.1 mi. Sect. B, 10.16 mi. Sect. C and 1.37 mi. Sect. D. Shreveport-Natchitoches Highway, State Project 343, Red River Parish. J. M. Fourmy, ch. engr.

La., South Highlands—June 24, by E. M. Bodenheimer, mayor and Bd. Aldermen, Municipal Bldg., grading, paving and otherwise improving various streets and avenues. H. C. Daigre, Municipal Bldg., engr.; adv. E. N.-R. June 5.

Tennessee—June 30, by J. G. Creveling, highway comr., Nashville, **(F. A. P. means Federal Aid Project, S. A. P. means State Aid Project)**, surfacing with giant macadam (limestone) 9 mi. Rutherford Co. line to point 5 mi. of Manchester, 16 ft., S. A. P. 151-C, Coffee Co.; grading and surfacing with macadam (limestone), 4.625 mi. from S. A. P. 136 to point near Battle Creek, 16 ft., S. A. P. 170, Marion Co., incl. 4 bridges, 5.02 mi. Warren Co. line-Tarlton Rd., 9 ft., S. A. P. 171, Grundy Co., incl. two 20 ft. span timber bridges; grading 9.5 mi. Madison Co. line Rd., 18 ft., Gibson Co., 2.25 mi. Humbolt-Jackson Co. line Rd., 18 ft., Federal Aid Project 29-A, Gibson Co., incl. two 20 ft. span concrete bridges, 9.413 mi. Milan-Madison Co. line Rd., 16 ft., S. A. P. 167, Gibson Co., incl. one 20 ft. span concrete bridge, 3.66 mi. Gibson Co. line to F. A. P. 29-B, 16 ft., S. A. P. 168, Madison Co., incl. one 20 ft. span bridge, 8.026 mi. Troy-Hornbeak Rd., 16 ft., S. A. P. 169-A, incl. one 20 ft. span concrete bridge and 4.6 mi. Hornbeak to F. A. P. 71-B, 16 ft., S. A. P. 169-B, Obion Co, 9.86 mi. Brighton-Shelby Co. line Rd., 18 ft., F A. P. 31-A, incl. one 20 ft. concrete bridge, and 7.37 mi. Brighton-Covington Rd., 18 ft., F. A. P. 31-B, Tipton Co., 7.78 mi. Gibson Co. line to point 4.6 mi. of Jackson, 18 ft., F. A. P. 29-B, Madison Co. Noted Apr. 24.

Ky., Louisville—June 9, by Fiscal Court Jefferson Co., reconstructing Brush Run Rd. from Dawsons Hille to Route; grading and constructing Black Mud Lane from Shepherdsville Rd. to Poplar Level Rd., and from Preston Street Rd. to Ashbottom Rd., Strawberry Lane from Highland Park to Strawberry Station. To exceed $25,000. M. Drane, Louisville Trust Bldg., co. surv.

Ohio—June 13, by Dept. Highways and Pub. Wks., Columbus, grading, bridging and paving roads in 23 counties, with bituminous macadam, asphalt or tar, bituminous concrete, concrete, brick, Kentucky rock asphalt, waterbound gravel, asphaltic concrete. A. V. Donaheys, dir. highways.

O., Bainbridge — June 9, at office Bd. Trustees Bainbridge Twp., improving 3.57 mi. Chagrin Falls-Bainbridge Center Rd., 22 ft., Geauga Co., 4 in. roadway and 16 ft. pavement. $76,725. C. S. Miner, Chagrin Falls, clk.

O., Columbus—June 10, by W. H. Duffy, dir. Pub. Serv., grading, laying necessary water services and sewer connections, and paving 1,775 ft. Ardmore and Malvern Aves., 24 ft., brick $31,934, asphalt $26,423; 1,054 ft. Atcheson St., 30 ft., brick $25,072, asphalt $20,714; 904 ft. alleys north 7th and 6th Aves., 16 ft., brick $5,519, concrete $4,877; 362 ft. alley north 11th Ave., 22.5 ft., brick $3,099, concrete $2,741; 126 ft. second alley west High St., 15 ft., brick $743, concrete $656; 322 ft. second alley west Kimball Pl., 14 ft., brick $2,054, concrete $1,838.

O., Columbus—June 11, at office of Bd. Comrs. Franklin Co., paving **(a)** sheet asphalt **(b)** rein.-con. **(c)** 3½ in. brick **(d)** 3 in. brick 4,221 ft. Schreyer Pl. and Dominion Blvd. West Rds., 24 ft., **(a)** $76,054 **(b)** $58,556 **(c)** $83,351 **(d)** $78,021; 1,329 ft. Rosemary Parkway and Zeller Rds., 50 ft. with 18 ft. parkway in center, **(a)** $32,935 **(b)** $24,418 **(c)** $35,356 **(d)** $33,329; 438 ft. Olentangy Blvd. Rd., 30 ft., **(a)** $10,701 **(b)** $8,400 **(c)** $11,446 **(d)** $10,787; 1,934 ft. Aldrick Rd., 26 ft., **(a)** $31,856 **(b)** $43,866 **(c)** $40,662 **(d)** $41,333. All foregoing in Clinton Twp. C. C. Lattimer, co. surv. Noted Apr. 4.

O., Port Clinton—June 13, by Comrs. Ottawa Co., brick paving 3 mi. Inter-County Highway 280, 20 ft. $121,000. State to appropriate toward cost.

Ind., Bedford—June 6, by Comrs. Lawrence Co. grading and graveling 4.1 mi. Spice Valley Church Rd., 24 ft., $27,538; 3.8 mi. Lincoln Ave. Rd., 24 ft., $25,364; 4.3 mi. Washington Ave. Rd., 24 ft., $29,826; 4 mi. Bedford and Peerless Rd., 24 ft., $27,369. H. McIntire, Bedford, engr. Noted May 22.

Ind., Brownstown—June 7, by Comrs. Jackson Co., paving Hughes Rd., 23,106 sq.yd. bituminous macadam. $38,702. E. B. Douglass, Brownstown, engr. Noted May 29.

Michigan—June 17, by State Hy. Dept. at office Comrs. Barry Co., Hastings, grading and gravel surfacing 2.271 mi. Assessment Dist. Rd. 458, Barry and Allegan Counties, 20,025 cu.yd. excav., 16,291 sq.yd. gravel. G. C. Dillman, Lansing, ch. engr.

Michigan—June 18, by State Hy. Dept. at office Comrs. Roscommon Co., Roscommon, grading and surfacing 6 mi. State Trunk Line Rd. 18-18, Sect. C, 37,487 cu.yd. excav., 56,308 sq.yd. gravel, G. C. Dillman, Lansing, ch. engr.

Wis., Fond du Lac — June 10, by J. Hohensee, city clk., improving Linden Ave., 8,216 sq.yd. asphaltic concrete or sheet asphalt, and 5,374 lin.ft. concrete curbing and gutter. To exceed $25,000. G. H. Stanchfield, City Hall, engr. Noted May 22.

Wis., West Allis—June 9, by Bd. Pub. Wks., improving 50th Ave. also 13 alleys, 17,390 sq.ft. one course concrete, vibrolithic concrete and sheet asphalt. To exceed $25,000. W. Darby, City Hall, engr.

Ia., Clinton—June 3, by F. W. Leedham, city clk., 19,354 sq.yd. grading and 3 in. vertical fibre brick, warrenite bitulithic or sheet asphalt paving, 8,670 lin.ft. curb and gutter. $60,000.

Minn., Faribault—July 15, by F. M. Kaisersatt, aud. Rice Co., gravel surfacing 19.55 mi. Job 2407, State Rd. 21-25, $30,000, and 5.25 mi. Job 2405, State Rd. 27, $7,500. J. C. McElherene, Faribault, engr.

Minn., Minneapolis—June 17, by J. A. Ridgway, secy. Bd. Park Comrs., City Hall, 3,000 lin.ft. colored curb and gutter, 2,800 sq.yd. concrete tile walks, 5,000 sq.yd. colored concrete tennis courts, Powderhorn Lake Park. Former bids rejected. Noted May 1.

Kan., Marion—June 19, by Clerk Marion Co., constructing 4.269 mi. Federal Aid Project 216-A. Former bids rejected. R. K. Walters, co. engr. Noted May 29.

Kan., Marion—June 19, by Clerk Marion Co. grading, etc., 8.766 mi. Federal Aid Project 218-A, 39,272 cu.yd. earth and 6,570 cu.yd. rock excav., 4,060 lin.ft. guard rail, 9,160 cu.yd. borrow, 36,122 lb. reinforcing, 1,230 ft. 15 to 36-in. rein.-con. pipe, 6,328 cu.yd. channel change, etc. E. C. L. Wagner, 608 Kemper Bldg., Kansas City, Mo., engr. Noted May 29.

Nebraska—June 13, by State Hy. Dept., Lincoln, gravel surfacing 106,550 yd. Hartington-Fordyce Rd., Federal Aid Project 72-A, Cedar Co., $25,000; 224,000 yd. Hartington-Wayd Rd., Federal Aid Project 4, Cedar Co., $44,800; 13,000 yd. Aurora-Central City Rd., Federal Aid Project 156-B, Hamilton Co., $6,000.

Neb., Omaha—June 3, by H. [illegible], city engr., City Hall, 200,000 sq.yd. asphaltic concrete, concrete or brick on concrete paving, curb, gutters, etc.

South Dakota — June 10, by State Hy. Comn., Pierre, grading, etc., 13.02 mi. F. A. P. 170B, Lake Co., 88,933 yd. excav.; 10.12 mi. F. A. P. 170A, Brookings and Kingsbury Co., 120,450 yd. excav.; 21.69 mi. F. A. P. 185A, Jones Co., 86,493 yd. excav.; 13.65 mi. F. A. P. 175, Hand Co., 100,477 yd. excav.; 3.77 mi. F. A. P. 146B and 180B, Corson Co., 68,737 yd. excav., 5,831 lbs. reinforcing; 11.21 mi. F. A. P. 62A, Haakon Co., 110,889 yd. excav., 29,144 lbs. reinforcing. F. D. Hudgins, ch. engr.

S. D., Sioux Falls — June 9, by W. C. Leyse, city aud., about 9,410 sq.yd. concrete, bitulithic concrete or asphalt paving. $35,000. B. S. Howe, city engr.

Missouri—June 10, by State Hy. Dept., Jefferson City, 20,818 cu.yd. grading and 23,236 sq.yd. chat paving road in Laurence Co.; 63,320 sq.yd. graveling roads in Taney and Miller Counties; 188,988 sq.yd. concrete paving roads in Clay, Jefferson and Warren Counties; 168,643 cu.yd. grading and 271,221 sq.yd. graveling roads in Dunklin, Polk, Phelps, Knox, Lawrence, Mississippi and Wayne Counties; grading roads in Jefferson, Warren, Cole, St. Francois, McDonald, St. Clair, Christian, Henry, Montgomery, Douglas, Livingston, Webster, Clay and Wayne Counties 716,375 cu.yd. earth and 16,332 cu.yd. rock excav. B. H. Piepmeier, highway engr.

Mo., Higginsville—Taking bids grading, concrete curbing, and 7 in. concrete surfacing 5,330 sq.yd., East Green St. J. Walker, Higginsville, engr.

Mo., St. Louis—July 1, by Bd. Pub. Serv., Room 208, City Hall, paving Warrenite on concrete, bitulithic on concrete, granite paving, etc., Ohio Ave., Indiana, Chippewa South, Plateau, Blow, Enright, 25th and Dewey Sts. $125,365.

Ark., Van Buren—June 19, by D. E. Bryon, secy. Bd. Impvt. Dist. 4, 2,550 cu.yd. earth and 50 cu.yd. rock excav., 50 ft. 18 in. vitr. brick or concrete storm sewer, 5,655 sq.yd. 6 in. concrete paving, 5,430 lin.ft. curb and gutter, alternate bids on 7,224 sq.yd. 6 in. concrete with integral curb or vibrolithic paving with 6 in. integral curb. W. L. Winters, 311 Merchants Bldg., Ft. Smith, engr.

Ark., Van Buren—June 19, by C. M. Wofford, secy. Bd. Impvt. Dist. 5, 9,000 cu.yd. earth and 100 cu.yd. rock excav., 840 ft. 16- to 36-in. storm sewers, 30,850 ft. curb and gutter, 4,190 ft. curb, 33,810 sq.yd. 6 in. concrete paving, alternate bids on asphaltic concrete or vibrolithic with integral curb, etc. W. L. Winters, 311 Merchants Bldg., Ft. Smith, engr.

Tex., Carthage—June 27, by T. H. Dillon Center, engr. Panola Co., improving, grading and bridging 9.6 mi. State Highway 43, Beckville to Carters Ferry. $110,000.

Tex., Huntsville—June 26, by City Council, 38,000 sq.yd. standard paving, various types, 21,330 ft. curb and gutter, etc. $110,000. Baker & Von Zuben, Ellison Bldg., Ft. Worth, engrs.

Tex., San Antonio—June 11, by A. C. Pancoast, engr., limestone rock asphalt surfacing 2½ mi. Cuppler Rd. from Frio City to Castroville Rds., etc. $30,000.

Calif., Richmond—City Council taking bids improving portion McLaughlin Ave., Lassen St., etc., 11,000 cu.yd. grading, 242,000 sq.ft. oil macadam, 87,000 sq.ft. walks, 33,000 sq.ft. gutters, 17,000 cu.ft. concrete curb, etc. To exceed $50,000. H. D. Chapman, city engr. Noted May 15.

Calif., Suisun City—City Trustees taking bids paving City Plaza streets, 19,924 sq.ft. 2 in., 85,346 sq.ft. 2½ in., 45,821 sq.ft. 3½ in. asphaltic conrete or warrenite-bitulithic. E. N. Eager, Courthouse, Fairfield, engr.

Calif., Sunnyvale—City Trustees taking bids, improving Washington, Taafe, Evelyn Aves., etc., 137,879 sq.ft. 1½ in. warrenite on 2½ in. asphaltic concrete, 10,710 lin.ft. concrete curb and gutter, etc. H. B. Fisher, Growers Bank Bldg., San Jose, engr.

Ont., St. Catherines—June 10, by A. H. Trapnell, Secy. Suburban Rds. Comn., 22,000 sq.yd. stone filled sheet asphalt on macadam, Lincoln Co. $60,000. F. N. Rutherford, 24 Queen St., engr.

Ont., Tara—May 31, by J. W. Sinclair, Tara, 72 ft. steel truss span bridge, concrete substructure, for Arran Twp. $25,000. G. E. Stephenson, Walkerton, engr.

Quebec—June 18, by Dept. Provincial Highways, Quebec, gravelling 67,057 ft. Montreal-Ottawa Highway via Hull High-

Streets and Roads (Continued)

way in Notre Dame de Bouscoeurs, St. Angelique, Plaisance, Papineauville, Massom and Angers. J. L. Boulanger, deputy minister.

BIDS RECEIVED

N. Y., Brooklyn—E. Riegelmann, boro pres., Boro Hall, repaving with granite roadway of Concord St., from F. J. Gallagher, 490 Park Pl., $13,880; repaving with asphalt DeKalb and Throop Aves., from Uvalde Asphalt Paving Co., 1 Bway., New York, $16,116 and $19,481 respectively; laying cement sidewalks on Havemeyer St., from Navy Constr. Co., 182 Navy St., $641; grading, curbing and flagging 15th Ave., from Grimm Contg. Co., 170 McKinley St., $3,188; repaving with asphalt 86th St., from Cranford Co., 52 9th St., $47,731; furnishing and applying 70,000 cu.yd. binder, from Standard Oil Co. of New York, 26 Bway., $10,500. Noted May 22.

N. Y., New York — H. Bruckner, pres. Bronx Boro, Municipal Bldg., 3rd and Tremont Aves., paving where not already paved and repaving with granite blocks Prospect Ave. from East 149th to East 163rd Sts., and from 163rd St. to Boston Rd., from Leonard Paving Co., 233 Bway., $220,588 and $243,692 respectively. Noted May 22.

N. Y., New York—J. Miller, pres. Manhattan Boro., Municipal Bldg., alterations and improvements to sewer in Beaver St., from P. J. Donlon Constr. Co., Snyder Ave. and East 56th St., Brooklyn, $27,626; curbing, recurbing, flagging and reflagging, etc., pavement in West 176th St., from Asphalt Constr. Co., 208 Bway., $8,989; grading, regrading, curbing and recurbing, etc., in West 177th St., from M. Del Baso, 660 East 221st St., $29,060; curbing, recurbing, flagging, reflagging and paving with asphalt blocks on Payson Ave., from Burnside Constr. Co., 270 Burnside Ave., $12,397; sidewalks on park strips on Park Ave., from P. Cramer, 154 East 50th St., $6,749. Noted May 15.

N. Y., St. George — J. A. Lynch, pres. Richmond Boro, Boro Hall, repaving with granite block pavement Richmond Ave., from J. Johnson Sons, 455 Bway., West New Brighton, $91,664. Noted May 22.

N. J., New Brunswick—Middlesex Co., paving River Rd. and Stelton-New Market Rd., from C. Sebolt, 16 Richmond St., $42,161 and $47,821 respectively.

N. J., Plainfield—State Hy. Dept., Trenton, constructing Route 9, Sect. 11, Lincoln Ave., here, Middlesex Co., 6,558 cu.yd. excav., 18,231 sq.yd. concrete and 1,841 sq.yd. granite block paving, from C. H. Winans, 207 Broad St., Elizabeth, $137,437. Noted May 15.

Pa., Phila.—Grading, Schedule A, Flanders, Woodcrest, 64th and 66th Sts., from R. B. Weimer, 3106 Midvale Ave., $9,463, G St., from T. Flanagan, 531 East Girard St., $18,062, Ritner St., from F. Brennan, 2507 Tasker St., $984, 32nd St., from E. A. Mullen, Inc., 5512 Vine St., $6,363, 47th St., from Kelly Colgan Co., Inc., Wayne St., $3,817; asphalt paving (assessment work) Schedule B, Champlost St., from Eastern Paving Co., 401 Columbia Trust Bldg., $31,298; repairing and resurfacing asphalt streets, Schedule C, from Union Paving Co., 300 Locust St., $68,080; repairing, surfacing and resurfacing country roads, Schedule D, from Curtis Bros., State Rd., $8,250; repairs and reinforcement of bridge at 6th St. and Allegheny Ave., Schedule F, from G. F. Dobbins, 1020 South 47th St., $19,225.

Md., Baltimore—Concrete paving, Alley Contr. 109, from J. J. Bresnan & Co., 1625 Bank St., $42,005; Alley Contr. 94, from Arundel Constr. Co., Knickerbocker, Bldg., $34,361.

North Carolina—State Hy. Comn., Raleigh, **(S. P. means State Project)**, grading and concrete or asphalt paving 9.037 mi. S. P. 617, Catarrus Co., from Noll Constr. Co., Charlotte, $320,936, 13.392 mi. S. P. 791-B, Yadkin Co., from Ziegler & Dalton, Junction City, Kan., $518,247, 6.173 mi. S. P. 812, Burke Co., from Overstreet & Vance, Bedford, Va., $195,367, 8.134 mi. S. P. 318 Brunswick Co., from W. F. Bowe, Augusta, Ga., $94,915, 12 mi. S. P. 107-B, Bertee Co., from F. Mitchell Constr. Co., Greenville, $347,017; grading 6.487 mi. S. P. 432, Granville Co., from T. W. Chandler, Virgilina, Va., $25,183, 8.012 mi. S. P. 415, Durham Co., from B. F. Teeter, Harrisburg, $83,074, 10.768 mi. S. P. 212, Craven Co., from Eagle Eng. Co., New Bern, $71,574, 11.832 mi. S. P. 111 and 117, Camden and Currituck Counties, from N. L. Teer, Durham, $79,711; grading and top soiling 16.656 mi. S. P. 134, Gates Co., from Smith Bros., Inc., Allen Bldg., Raleigh, $67,148; grading and bituminous macadam surfacing 2.048 mi. S. P. 890, Yancey Co., from J. F. Mulligan Constr. Co., North Wilkesboro, $62,963; grading 7.275 mi. S. P. 891, and grading and waterbound macadam surfacing 11.259 mi. S. P. 888, both Yancey Co., to W. H. Anderson Constr. Co., Brevard, $153,836 and $160,967 respectively. Noted May 8.

Fla., Gulfport — Town Council, 115,600 sq.yd. vitr. brick, asphalt filler, paving, from Southern Clay Mfg. Co., Lewisburg, Ala., special brick $2.20, standard $2.37; from Kendrick & Bowyer, Tampa, brick $2.40. Noted May 8.

Alabama—State Hy. Dept., Monfgomery, grading and surfacing 9.97 mi. Federal Aid Project 141 A, and 55, Hale Co., from W. H. Pattie, 720 North 16th St., Birmingham, $128,418. Engrs. est. $135,534.

Alabama—State Hy. Dept., Montgomery, grading and concrete surfacing 3.87 mi. roads in Montgomery Co., from J. Fromherz, Title Guarantee Bldg., New Orleans, La., $112,958; bridges, from Lawrence Constr. Co., Jackson, Miss., $13,908.

Tennessee — State Dept. Hys. & Pub. Wks., Nashville, grading 9.62 mi. Davidson Co. line-Dickson Co. line Rd., 18 ft., Federal Aid Project 205, Cheatham Co., from Womack Constr. Co., and Texas Willite Road Co., 1205½ Capitol Ave., Houston, Tex., $126,333. Noted May 15.

Kentucky—State Hy. Dept., Frankfort, **(S. P. means State Project)** bituminous surfacing 14.8 mi. Paris-Winchester Rd., 14 ft., S. P. 32-A, Bourbon Co., and 5 mi. Falmouth-Cynthiana Rd., 14 ft., S. P. 21-E, Harrison Co., from Southern Oil & Tar Co., Clay and Fulton Sts., Louisville, $11,234 and $7,783 respectively; 1.9 mi. Louisvile-Paducah Rd., 14 ft., S. P. 8-S, McCracken Co., and 11.15 mi. Munfordsville-Bearwallow Rd., 14 ft., S. P. 11-J, Hart Co., from F. G. Breslin Co., 32nd and Market Sts., Louisvile, $6,426 and $5,300 respectively; 2.9 mi. Lexington-Georgetown Rd., 14 ft., S. P. 5-H, Fayette Co., and 8.09 mi. Cave City-Bowling Green Rd., 14 ft., S. P. 11-H, Edmonson Co., from R. B. Tyler & Co., 114 South 14th St., Louisville, $2,020 and $12,656 respectively; 13.1 mi. Frankfort-Shelbyville Rd., 18 ft., S. P. 17-D, and 5 mi. Frankfort-Georgetown Rd., 14 ft., S. P. 17-E, both Franklin Co., from Kentucky Road Oil Co., Frankfort, $9,665 and $3,424 respectively; 3.14 mi. Mt. Sterling-Frenchburg Rd., 14 ft., S. P. 32-C, Montgomery Co., from Eaton Oil Works, Sterrett St., Cincinnati, O., $7,539. Noted May 8.

O., Cleveland—Paving Edgewater Park Blvd., 7,000 sq.yd. bituminous concrete, from Rieley Bros., The Arcade, $46,134. Noted May 15.

Michigan — State Hy. Dept. at office Comrs. Washtenaw Co., Ann Arbor, grading and surfacing 0.52 mi. State Trunk Line Rd. 92.2, 6,882 sq.yd. concrete, from Koch Building & Supply Co., Ann Arbor, $25,251. Noted May 15.

Michigan — State Hy. Dept. at office Comrs. Huron Co., Bad Axe, grading and surfacing 0.41 mi. State Trunk Line Rd. 19-8, Sect. E, 2,527 cu.yd. excav., 7,477 sq. yd. concrete, from Schulz & Liken, Sebeawing, $24,408.

Michigan — State Hy. Dept. at office Comrs. Bay Co., Bay City, May 19, grading and surfacing 3.598 mi. State Trunk Line Rd. 20-14, 16,700 cu.yd. excav., 38,539 sq.yd. concrete, from Galarno Constr. Co., Bay City, $90,785. Noted May 8.

Michigan — State Hy. Dept. at office Comrs. Benzie Co., Beulah, grading and gravel surfacing 3.908 mi. State Trunk Line Rd. 22-12, 20,596 cu.yd. excav., 36,995 sq. yd. gravel, from Remus Constr. Co., Remus, $23,630.

Michigan — State Hy. Dept. at office Comrs. St. Joseph Co., Centreville, grading and surfacing 8.746 mi. State Trunk Line Rd. 60-3, 51,826 cu.yd. excav., 93,717 sq. yd. (a) bituminous macadam, or (b) 7 in. concrete, from Sturgis Road Machy. Co., Galesburg, (a) $71,045, Whitlow & Nelson, Muskegon, (b) $172,511. Noted May 15.

Michigan — State Hy. Dept. at office Comrs. Kent Co., Grand Rapids, May 20, grading State Trunk Line Rd. 13-50 C, 55,988 cu.yd. excav., etc., from W. Maxwell, 212 Fitzhugh St., Midland, $28,664. Noted May 15.

Michigan — State Hy. Dept. at office Comrs. Lapeer Co., Lapeer, grading and surfacing 0.68 mi. State Trunk Line Rd. 36-5, from 20 to 57 ft. wide, 5,657 cu.yd. excav., 14,404 sq.yd. concrete, from C. Frame & Son, Harbor Beach, $36,029, also 1.244 mi. State Trunk Line Rd. 36-4, 9,507 cu.yd. excav., 6,340 sq.yd. gravel, 7,660 sq. yd. concrete, from R. C. Bailey, Corunna, $26,651. Noted May 15.

Michigan — State Hy. Dept. at office Comrs. Schoolcraft Co., Manistique, grading and surfacing 3.5 mi. State Trunk Line Rd. 77-2, 17,166 cu.yd. excav., 32,698 sq. yd. gravel, from Peterson Constr. Co., 520 Globe St., Minneapolis, Minn., $32,962.

Michigan — State Hy. Dept. at office Comrs. Muskegon Co., Muskegon, grading and surfacing 1.045 mi. State Trunk Line Rd. 11-19, 3,442 cu.yd. excav., 12,204 sq. yd. concrete, from J. R. Edelman, Muskegon, $27,219.

Ill., Vandalia—City, May 29, paving 5th St. with (a) concrete (b) brick on concrete, from C. J. Moritz, Inc., Effigham, (a) $38,164 (b) $48,390. Noted May 15.

Neb., Kearney—Paving, curbing and guttering 20,000 yds. Paving Dist. 61, from E. D. Tyner Constr. Co., 14th and Elmwood Sts., Kansas City, Mo., asphaltic concrete $45,000, sheet asphalt $50,000.

Neb., North Platte—Paving Dist. No. 26, from Abel Constr. Co., Terminal Bldg., Lincoln, $27,500. Engineers est. $28,000.

Missouri — State Hy. Dept., Jefferson City, May 20, from H. H. Humphrey Constr. Co., Fredericktown, grading 2.836 mi. Sylvia-East Rd., 26 ft., Wayne Co., $12,908, 1.521 mi. Marble Hill-Advance Rd., 26 ft., Bollinger Co., $7,404, 1.957 mi. Marble Hill-Advance Rd., 26 ft., Bollinger Co., $18,562, graveling 1.294 mi. Coldwater North Rd., 12 ft., Wayne Co., $9,160; from Haller & Davis, Boonville, gravel surfacing 4.553 mi. Jefferson City-Kansas City Rd., 18 ft., Morgan Co., $53,775, 3.963 mi. Jefferson City-Kansas City Rd., 18 ft., Cooper Co., $69,533, from Gaines Bros., Fairland, Okla. 3.875 mi. Jefferson City-Kansas City Rd., 18 ft., Cooper Co., $57,965, from B. Layton, Muscatine, Ia., 2.793 mi. Memphis East Rd., 16 ft., Scotland Co., $26,104 from C. T. Fogle Constr. Co., Jefferson City, 0.389 mi. McBride South Rd., 12 ft., Perry Co., from Newton Constr. Co., California, 5 mi. Stockton East Rd., 12 ft., Cedar Co., $27,911, from A. M. Morrow, Charleston, 2.185 mi. Diehlstadt South Rd., 16 ft., Mississippi Co., $31,663, from T. P. Sparks, Kirkwood, 3.598 mi. St. Charles-West Alton Rd., 12 ft., St. Charles Co., $35,502; from C. Parker, Keytesville, grading 2.608 mi. Salisbury East Rd., 30 ft., Chariton Co., $9,932, 2.632 mi. East Salisbury Rd., 30 ft., Chariton Co., $16,620, from J. L. Simmons, La Plata, 2.106 mi. Milan North Rd., 30 ft., Sullivan Co., $15,496, 2.998 mi. Lemons South Rd., 30 ft., Putnam Co., $8,218, from Metropolitan Paving Co., St. Joseph, 7th & Olive Sts., 4.713 mi. Parkville South Rd., 30 ft., Platte Co., $4,996, from J. G. Nevels & Masonor, Willow Springs, 0.17 mi. Elsinore West Rd., 26 ft., Carter Co., $7.003; from M. E. Gillioz, Monett, chat surfacing 2.432 mi. Lockwood East Rd., Dade Co., $15,166, 2.528 mi. Lockwood East and West Rds., 12 ft., Dade Co., $12,607; from Louis Rich Constr. Co., East St. Louis, Ill., concrete surfacing 4.713 mi. Parkville South Rd., 18 ft., Platte Co., $77,027. Noted May 15.

Missouri — State Hy. Dept., Jefferson City, May 20, from Republic Concrete Constr. Co., Republic, two 10 ft. rein.-con. slab spans, etc., over Little Bear Creek, $2,285, one 40 ft. and two 30 ft. rein.-con. deck girder spans over Cedar Creek, $7,395, two 10 ft. rein.-con. slab spans, etc., over Black Bear Creek, $2,014, three 12 ft. rein.-con. slab spans, etc., over Polar Bear Creek $3,955, all Wayne Co.; from Wagner Bridge & Constr. Co., St. Louis, three 40 ft. rein.-con. deck girder spans, etc., over drainage ditch, Perry Co., $13,402, one 50 ft. and two 20 ft. I-beam spans, etc., over drainage ditch, Bollinger Co., $7,864; from J. G. Nevels & Masoner, Willow Springs, two 24 ft. rein.-con. deck girder spans, etc., over Brushy Creek, Carter Co., $7,003; from S. J. Groves & Sons, Minneapolis, Minn., five 20 ft. rein.-con. slab spans, etc., St. Louis Co., $8,639; from H. H. Hauerkrat, 53rd and Brooklyn Sts., Kansas Ciy, three 20 ft. rein.-con. slab spans, etc., over Long Branch, Cooper Co., $4,240; from Pittsburgh Des Moines Steel Co., Tuttle and Southwest 10th Sts., Des Moines, Ia., two 12 ft. rein.-con. slab spans, etc., over stream, Scotland Co., $2,807; from A. L. Cook, Ottawa, Kan., fifteen 20 ft. rein.-con. slab spans over overflow of east fork of Chariton River, Chariton Co., $15,252; from P. J. Murphy, Moberly, two 40 ft. and one 25 ft. rein.-con. deck girder spans, etc., over east fork of Chariton River, Chariton Co., $8,986.

Mo., St. Louis—From J. E. Perkinson, 3337 Carter Ave., paving Bates St., 13,300 sq.yd. rein.-con., $53,310, engrs. est. $61,000, Macklind Southwest Ave., brick on concrete $15,932, engrs. est. $18,000, Tholozen St., Kentucky rock asphalt, $13,-

Streets and Roads (Continued)

621, engrs. est. $15,700; from Skrainka Constr. Co., Security Bldg., Oleatha St., 3,500 sq.yd. concrete $10,702, engrs. est. $12,600, Sulphur Ave., brick on concrete, $25,716, engrs. est. $29,400.

Tex., Austin—Travis Co. grading, etc., 11.6 mi. Sect. A, Austin-Webberville Rd., 24 ft., and 7.85 mi. Sects. B and C, Austin-Webberville Rd., 24 ft., from H. J. Evans, 500 West 15th St., $31,394 and $24,422 respectively. Engrs. est. $30,000 and $38,000 respectively.

Tex., Dallas—Dallas Co. paving 303 mi. State Highway 1, 18 ft., from Smith Bros., Amer. Exch. Natl. Bank Bldg., asphalt $98,354, concrete $121,993. Noted Apr. 24.

Okla., Ponca City—Improving Dists. 42 and 43, etc., to R. H. Baldwin, Ponca City, $35,511.

Colorado — State Hy. Dept., Denver, gravel surfacing 7.703 mi. Federal Aid Project 242-A, Mesa Co., from D. Hinman, 3358 Race St., Denver, $81,256, engrs. est. $99,779; grading and graveling 3.239 mi. Federal Aid Project 258-A, Gunnison Co., from R. P. Morrison, Golden, $34,902, engrs. est. $45,303.

Colo., Denver—Surfacing 20 mi. North Denver Surfacing Dist. 7, crushed gravel, loam and sand, from H. C. Lallier Constr. & Eng. Co., Hudson, $109,613. Engrs. est. $118,954. Noted May 15.

Wash., Everett—Comrs. Snohomish Co. grading and gravel surfacing 6.9 mi. Woodinville cut-off, 52,262 cu.yd. earth excav., etc., from Wangsmo Bros. & Co., Arlington, $64,946. Engrs. est. $67,000. Noted May 15.

California—State Highway Comn., Sacramento, surfacing 6.9 mi. highway from point 2 mi. east of Parkfield Junction and Coalinga, Fresno Co., 9,100 cu.yd. gravel or stone surfacing, from Stewart & Bland, Fresno, $12,649, engrs. est. $30,030. Noted May 1.

Calif., Glendale—From E. L. Fleming, 324 west Dryden St., improving Hermosita, El Rito Aves., etc., 440,910 sq.ft. grading $0.015, 90,518 sq.ft. 5 in. oiled macadam $0.145, 185,704 sq.ft. 3 in. oil macadam $0.1075, 61,650 sq.ft. walks $0.16, 4,131 ft. 8 in. c.i. water pipe $17,507, 8,188 ft. 8 in. vitr. sewer pipe $2.35.

Calif., Los Angeles—Los Angeles Co. improving 3.71 mi. Michigan Ave., Rd. Dist. Impvt. 257, 20 ft., 17,948 cu.yd. excav., shaping 44,565 sq.yd. roadbed, 44,565 sq.yd. 5- to 8-in. concrete paving shaping 19,568 lin.ft. shoulders, etc., from Sully-Miller Co., 250 Bennett Ave., Long Beach, $96,490.

Calif., Stockton—Improving (1) Wilson Way (2) portions Market St., etc., 2 in. asphaltic macadam on 4 in. cementing gravel, concrete curbs, gutters and walks, etc., from J. E. Johnston, Savings & Loan Bank Bldg., (1) $29,595 (2) $15,227; Blumenkranz & Vernon, Farmers & Merchants Bank Bldg., (1) $29,595 (2) $15,179.

CONTRACTS AWARDED

Massachusetts—Dept. Pub. Wks. Div. of Highway, State House, Boston, about 5,000 ft. highway in Salisbury and Newburyport, bituminous macadam, to J. E. Watkins, 10 Fern Ave., Amesbury, $57,675; 25,300 ft. in Lakeville, rein.-con. and bituminous macadam, to Perrini & Sons, Ashland, $312,361; 13,000 ft. in Southampton, bituminous macadam, to D. O'Connor Sons, 480 Hampden St., Holyoke, $132,511; 26,000 ft. in Essex and Ipswich, bituminous macadam, to Cenedella & Co., 68 Schools St., Milford, $184,396. Noted May 15 and 22.

Mass., Boston—Dept. Pub. Wks., additional bitulithic, wood block and recut granite block paving, and artificial stone sidewalks on West, Bedford, Charles and Leverett Sts., to B. E. Grant Co., 100 Floyd St., Roxbury, $63,818; asphalt paving Fenway St. from Forsyth to Museum Rds., to Warren Bros. Co., Parkman Bldg., $63,128. Noted May 22.

Mass., Dorchester (Boston P. O.) — Bitulithic paving Blue Hill Ave. from Canterbury to River Sts., to Warren Bros. Co., 9 Cambridge St., Boston, $129,236. Noted May 22.

Mass., West Roxbury (Boston P. O.)—Dept. Pub. Wks., City Hall, Boston, bitulithic paving Washington St., here, to M. F. Gaddis, 5 Spaulding St., Roxbury, $63,818.

N. Y., Rochester—Bd. Contract & Supply, asphalt paving Chandler St., to J. Petrossi, Elwood Bldg., $12,145; Willite paving Dayton St., to Rochester Willite Corp., Rochester, $14,369; asphalt resurfacing Buena Pl., to Vulcanite Pavement Co., Exch. Pl. Bldg., $1,746; concrete paving Schlitzer and Dayton alleys, to J. E. Pidgeon, Rochester, $2,473.

N. Y., Watertown — Common Council, concrete paving Washington St., to Koetteritz & Blakeslee, Little Falls, $53,307, River St., to C. B. Colwell, 1140 Coffeen St., $32,051; Huntington, Newell, Engine and Leray Sts., to F. H. Allard, 712 Cadwell St., $14,053, $11,340, $3,538 and $11,804 respectively. Noted May 8.

N. J., Audubon—Boro Comrs., concrete paving and curbing alleys north of Merchant St., Princeton and Cornell Rds., Pine, Oak and Chestnut Sts., Edgewood, Audubon, 4th, Hampshire, and West Atlantic Aves., to Union Paving Co., 30th and Lancaster Sts., Phila., $168,222. Noted May 29.

N. J., Camden—Regrading and resurfacing 40,000 sq.yd. Princeton Ave., Line, 4th, Point, Elm, South 6th, Welsh, Liberty, Clare, Cedar and Auburn Sts., to Union Paving Co., 30th and Lancaster Sts., Phila., $123,957; patching and surfacing North 4th, Chestnut, Royden and Cherry Sts., to B. Foster & Co., 20th and Venango Sts., Phila., $26,510. Noted May 29.

N. J., Camden—Camden Co., to Union Paving Co., 30th and Lancaster Sts., Phila., paving Kings Highway $27,107, Warrick Rd., $50,835.

N. J., Haddonfield — For 198,000 sq.yd. bituminous surface and sheet asphalt paving, to Union Paving Co., 30th and Lancaster Sts., Phila., $342,025. Noted May 29.

N. J., Pitman—Laying 66,400 ft. concrete sidewalks, 20,600 lin.ft. curb and 780 sq.yd. concrete gutters in various streets, to G. C. Kindle, Pitman, $44,770. Noted May 29.

Pa., Butler—Paving Ziegler Ave., asphalt on concrete, to Allegheny Paving Co., Bakewell Bldg., Pittsburgh, $28,000. Engrs. est. $30,000.

Pa., Ebensburg—Cambria Co., concrete paving 9,100 lin.ft. Mencher Highway, Upper Yoder Twp., to C. T. Morgan, Johnstown, $110,786.

Pa., Pittsburgh—Repaving Fleetwood St., to M. O'Herron Co., 18th St., $32,725. Engrs. est. $35,000.

Pa., Sharon—Paving Baldwin Ave. and Florence St., 3 in. brick on 5 in. concrete, to W. McIntyre & Sons, Sharon, $3.35 per sq.yd.; North Water and Budd Sts., 3½ in. brick on 6 in. concrete, to W. M. Keesecker, Youngstown, O., $3.61.

Pa., Phila.—Bureau Hys., Dept. Pub. Wks., grading Schedule A, to T. P. Lee, 5629 Cherry St., Georges Lane, Columbia, Montgomery, Morse and Peach Sts. $13,676, Lebanon, Malvern and 59th Sts. $15,252, Warrington and 70th Sts., $11,979; to E. A. Mullen, Inc., 5512 Vine St., Hanson and St. Bernard Sts., $3,714; Root Bros., Ridge Ave. and Righter St., Houghton and Lauriston Sts., $8,699; to Byrne Bros., 335 Gates St., Mathias and Parker Sts., $3,934; to E. Tourison Jr., 1517 Bankers Trust Bldg., Weathan St., $14,392; asphalt repaving, Schedule B, to Eastern Paving Co., 401 Colonial Trust Bldg., Ellsworth St., also track area $34,897; to Barber Asphalt Co., Colonial Trust Bldg., Haverford St. $41,464, Huntingdon St. $13,505, 10th St. $10,243; redressed granite block repaving Schedule C, to Mazzaola & Marano, 414 Gross St., Clifton, Drury, Naudain, Percy and Sheridan Sts., $14,228, Spruce St. (track area), $17,096; to United Paving Co., Frankford St. (track area), $18,532, York Rd. (track area), $33,941, 24th & 25th Sts. $9,146; to Dunlap & Williams, Ridge and Girard Sts., Frankford St. $67,759, 22nd St. $28,510; to Eastern Paving Co., 401 Colonial Bldg., Orthodox St. (track area), $31,507; steel repairs to bridge at 49th St. over West Chester Branch of Pennsylvania R.R. Schedule D, to Amer. Fabricated Steel Co., 2442 North Bordine St., $525. Noted May 22.

Maryland—State Rds. Comn., Baltimore, concrete paving 1 mi. highway in Frederick Co., Contr. F-76, to L. R. Waesche & Sons, Thurmont, $53,128, 1 mi. in Garrett Co., Contr. G-28, to Kitzmiller Constr. Co., Kitzmiller, $44,544; gravel surfacing 3 mi. in St. Marys Co., Contr. SM-27, to St. Marys Constr. Co., Mechanicsville, $21,546. Noted May 29.

Maryland—State Rds. Comn., Baltimore, concrete paving 2 mi. highway in Montgomery Co., Contr. M-50, to M. J. Grove Lime Co., Lime Kiln, $61,833; 1.61 mi. in Caroline Co., Contr. CO-23, to P. D. Phillips & Bro., Salisbury, $38,467; 1.16 mi. in Anne Arundel Co., Contr. AA-40, to Christhilf & Ensey Co., 1625 Ridgely St., Baltimore, $26,711; 1 mi. in Frederick Co., Contr. F-75, to R. B. Poffenberger, Meyersville, $30,967; 4.43 mi. in Anne Arundel Co., Contr. AA-39, to D. Marine Co., 2 Lexington St., Baltimore $127,201; 2 mi. in Worcester Co., Contr. WO-32, to Smith & Renshaw, Snow Hill, $60,696. Noted May 15.

Md., Baltimore—Bd. Awards, improving, etc., area around Guilford School, York Rd. and Cold Spring Lane, 8,391 cu.yd. earth excav., 15,334 sq.yd. surfacing, also concrete work, etc., at Montebello School, Harford Rd. and 32nd St., 10,000 cu.yd. rock excav., 3,500 sq.yd. macadam surfacing, etc., to Huse & Knight, 2800 Montebello Ave., $19,539 and $35,533 respectively; playground at School 65, Poplar Grove and Lanvale Sts., 6,000 cu.yd. earth excav., etc., to C. J. Spielman Co., Maryland Ave., Westport (Baltimore P. O.), $14,659. Noted May 15.

Md., Baltimore — Bd. Awards, paving Footway Contr. 78, 4,900 sq.yd. concrete, etc., to A. Spampinato, 1603 North Eden St., $10,775; 20,800 sq.yd. 5th Ave., Spring, Gay, Jackson and Courtland Sts., sheet asphalt, to Baltimore Asphalt Block & Tile Co., 1320 North Monroe St., $56,148. Noted May 15.

North Carolina—State Hy. Comn., Raleigh, gravel surfacing 6.49 mi. State Project 704, Alleghany Co., to Tucker-Gamhill & Co., West Jefferson, $29,655.

Fla., Haines City — Curbing, guttering and paving various streets, 43,700 sq.yd. 2½ in. block asphalt, to Davis & Webb, Water St., Tampa, Fla. Noted May 1.

Fla., Milton — Paving Milton St. and Milton-Brewton Rd., to Lawrence Constr. Co., Jackson, Miss., clearing, etc., 20 acres $70 per acre, 23,000 cu.yd. common excav. $0.35, 4,000 cu.yd. clay pit stripping $0.30, 6,913 cu.dy. sand-clay surfacing $0.75, 17,686 sq.yd. rein.-con. $2.57, 43 cu.yd. Class A concrete $27, 277 cu.yd. Class B concrete $25, 27,952 lb. reinforcing $0.065, 8,866 lin.ft. combined curb and gutter $0.625, total calculated on screened sand, $75,746.

Fla., Punta Gorda—Charlotte Co. paving 9 mi. portion State Rd. 5, Punta Gorda to Lee County line, 17 ft., 8 in. compacted marl, to Boone & Webster, Punta Gorda, $66,615.

Fla., Tavares—To P. Dean, Haines City, paving with bituminous wearing surface on lime rock, concrete curb and gutter, Barrow, Sinclair, Texas and Joanna Sts., $30,000; Lake Shore, Rockingham, Given and Clifford Sts., $30,000; Caroline, Ianthe Sts. and Tavares Blvd., $32,000; Irma, Ruby, Maud and Alford Sts., $32,500; New Hampshire, Rockingham, St. Clair, Abram and Diston Sts., $30,000. Noted May 15.

Alabama—State Hy. Dept., Montgomery, grading and graveling 11 mi. Greensboro-Newbern Rd., 10 ft., Hale Co., to W. H. Patty, Demopolis, $128,418. Engrs. est. $130,000.

Ala., Tuscaloosa — Concrete paving 8 blocks business section, to Sullivan, Long & Hagerty, Bessemer, $93,000. Engrs. est. $97,000. Noted May 8.

Tenn., Knoxville—Will oil various streets. To exceed $25,000. Work will be done by city forces. J. H. Brownlow, City Hall, city mgr.

Tenn., Nashville — Standard Golf and Country Club, grading sprinkling equipment, stone and frame club house, to H. Lightman Constr. Co., Nashville, $55,000.

Ohio—Dept. Highways and Pub. Wks., Columbus, to F. H. Beckler, Athens, grading, bridging and paving with brick 1.11 mi. Sect. "A" Nelsonville-Murray-Straitsville Rd., Athens Co., $52,633; to N. B. Putnam, Van Wert, Sect. "G-2," 2.886 mi. Sect. "H" and 2.425 mi. Sect. "I" Bucyrus-Crestline Rd., Crawford Co., all bituminous macadam, tar, $22,404, $60,181 and $49,994 respectively, 4.327 mi. Sect. "B" Bryan-Eldon Rd., Williams Co., bituminous macadam, asphalt, $85,280, 0.536 mi. Sect. "Blakeslee" Bryan-Eldon Rd., Williams Co., rein.-con., $12,494; to Mannix Bros., Greenville, 1.463 mi. Sect. "A-2" Dayton-Greenville Rd., Darke Co., rein.-con., $41,454; to G. H. Heffner & Son, Celina, 4.225 mi. Sect. "B" Greenville-Union City Rd., Darke Co., rein.-con., $122,569; to W. Sousley, Ada, 1.01 mi. Sect. "G" Roundhead-Ada Rd., Hardin Co., $9,641; to F. E. Milligan, Sidney, 2.54 mi. Sect. "B" Nelsonville-New Straitsville Rd., Hocking Co., bituminous macadam, tar, and 3.163 mi. Sect. "B" Sidney-Bellefontaine Rd., rein.-con., $92,387 and $107,754 respectively; to L. G. Booth, Painesville, 4.844 mi. Sect. "F" Painesville-Euclid Rd., Lake Co., rein.-con., $181,571; to Patterson Constr. Co., Lorain, 1.97 mi. Sect. "N-1" Twinsburg-Elyria Rd., Lorain Co., rein.-con., $54,277; to Dehmer Bros., Tiffin, surface treating 5.31 mi. Sects. "A" and "B" Toledo-Ann Arbor Rd., Lucas Co.,

Streets and Roads (Continued)

$2,714; to L. Dehmer, Tiffin, surface treating 2.9 mi. Sects. "J-2" and "Waterville" Toledo-Napoleon Rd. (special asphalt), $1,419, 3.51 mi. Sect. "C" Waterville-Swanton Rd., $1,752, 4.11 mi. Sects. "F" and "H" Toledo-Napoleon Rd., $1,777, and 4.2 mi. Sect. "A" Ottawa-Grand Rapids Rd., $1,717, all in Lucas Co., to W. G. Owens, Mineral Ridge, 3.766 mi. Sects. "G-1," "G-2" and "U-1" Akron-Canfield Rd., Mahoning Co., bituminous macadam, asphalt, $54,846; to G. Mellert Co., Medina, 2.51 mi. Sect. "A" and 5.99 mi. Sect. "B' Akron-Medina Rd., Medina Co., plain concrete, $31,785 and $76,474 respectively; to Malloy & Sickle, Marion, 2.454 mi. Sect. "G" Marion-Galion Rd., Morrow Co., bituminous macadam, asphalt, $31,992; to Trumbull Constr. Co., Warren, resurfacing 1.989 mi. Sect. "T" Ravenna-Warren Rd., Portage Co., $18,186; to Kelley & Myer Co., Youngstown, 3.138 mi. Sect. "R" Warren-Sharon Rd., Trumbull Co., bituminous concrete, $79,955; to Holmes Constr. Co., Wooster, 2.063 mi. Sect. "H" Columbus-Wooster Rd., Wayne Co., brick, $85,234; to Daley Bros., Bolivar, 1.5 mi. Sect. "I" Orrville-Northern Rd., Wayne Co., brick, $18,202; to G. R. Stincomb, 1191 Oak St., Columbus, 3.82 mi. Sect. "K-1" Upper Sandusky-Bellevue Rd., Wyandot Co., rock asphalt with waterbound and gravel base, $95,501; to Modern Constr. Co., Fremont, 1.49 mi. Sect. "B" Carey-Fostoria Rd., Wyandot Co. brick on concrete, $61,675; to Timmons Bros., Cadiz, grading 1.695 mi. Sect. "B" Dennison-National Rd., Harrison Co., sandstone base, $36,043; to Acton Bros., Vaughnsville, widening with plain concrete 1.949 mi. Sect. "R" Norwalk-Mansfield Rd., Huron Co., $14,788, and 4.803 mi. Sect. "K" and "L" Norwalk-Ashland Rd., Huron Co., $52,502; to W. E. Burke & Sons, Athens, grading and bridges on 2.933 mi. Sect. "N" Ravenna-Parkman Rd., Portage Co., $20,510. Noted May 15.

Ohio—Dept. Highways and Pub. Wks., Columbus, grading, bridging and paving 2.86 mi. Sect. "G" Niles-Ashtabula Rd., Trumbull Co., Kentucky rock asphalt, to Mahoning Constr. Co., Warren, $52,362; 3.248 mi. Sects. "C" and "Marysville" Delaware-Marysville Rd., Union Co., surface treated with waterbound macadam, to Laubis Stone Co., Kenton, $51,717; 2.231 mi. Sect. "O" Columbus-Marysville Rd., Franklin Co., bituminous macadam, asphalt, to T. D. Van Camp Co., Hartman Bldg., Columbus, $57,588; concrete widening 1.05 mi. Sects. "A" and "L" Columbus-Marysville Rd., Franklin Co., to Yale Constr. Co., Yale Ave., Columbus, $10,331.

O., Cincinnati—Paving 5th St., 3,700 sq.yd. granite block, 800 cu.yd. concrete, 1,370 lin.ft. granite curbing, 2,000 sq.ft. cement sidewalk, to Byrnes & Conway Co., 32 Bodman Bldg., $36,559, engrs. est. $40,961; Hamilton Ave., 3,800 sq.yd. 4 in. granite block, 1,100 cu.yd. concrete, 820 lin.ft. granite curbing, 3,000 sq.ft. cement sidewalk, 8,000 lb. castings, etc., to Henkel & Sullivan, 105 Bell Block, $56,146, engrs. est. $65,000.

O., Cleveland—Grading, curbing, guttering and paving 4,850 sq.yd. East 112th and East 118th Sts., brick, to Enterprise Paving & Constr. Co., 8444 Bway., $31,452; 7,000 sq.yd. East 139th St., concrete, to Baldwin Bros., 4500 Euclid Ave., $34,266; 7,200 sq.yd. East 123rd St., vitr. brick, to Highway Constr. Co., 903 Lorain Co. Bank Bldg., Elyria, $45,591; 4,750 sq.yd. Durkee Ave., concrete, to A. M. Pejsa, 3161 Derbyshire Rd., $22,561; 2,710 sq.yd. East 37th St., asphalt, to River Constr. Co., 2402 Mapleside Rd., Cleveland Heights (Wárrensville P. O.), $20,448; resurfacing 4,280 sq.yd. East 84th St., asphalt, to Cleveland Trinidad Paving Co., The Arcade, $17,144. Noted May 29.

O., Cleveland—Cuyahoga Co. Comrs., paving Lorain Rd. No. 2, 24,100 sq.yd. medina stone block (21,600 sq.yd. concrete base), 12,550 ft. 4 in. drain tile, 9,400 cu.yd. excav., to Roehl Bros., 7002 Denison Ave., $206,775. Noted May 29.

O., Columbus—Franklin Co., to R. J. Deinst, 480 South 5th St., sheet asphalt paving on 954 ft. bridge over Scioto River, known as Broad St. Bridge, 60 ft. wide, less 16 ft. 10 in. for car tracks, $15,161; brick paving 1,945 ft. bridge and approaches over Scioto River, known as Mound St. Bridge, 40 ft. wide, less 7 ft. 5 in for car tracks, $31,894. Noted May 8.

O., Massillon—Bd. Control, paving High St. from Main to Wellman Sts., Jarvis Ave. from Tremont to Walnut Sts. and Wallace St. from High to Pine Sts., asphalt, to General Asphalt Paving Co., 1268 Dueber Ave. S. W., Canton, $29,076, $31,840 and $26,698 respectively, engrs. ests. $30,000, $34,000 and $30,000 respectively; improving with brick Commonwealth Ave. from Akron to Mill Sts., to Elmer Vogt Paving Co., Massillon, $33,870, engrs. est. $30,000. Noted May 15.

O., Rocky River—Paving 7 streets, limestone surface, to Ohio Engineering Co., Lorain, $87,000. Noted May 8.

O., Zanesville—Paving State St. and Blue Ave., to Dunzweiler Bros. Constr. Co., Zanesville, $32,150. Engrs. est. $35,000.

Ind., Evansville—Resurfacing Fulton Ave. from Franklin to Water Sts., brick and asphalt to Western Constr. Co., Division and Rowley Sts., approximately $35,000. Noted May 22.

Ind., New Albany—Paving Market St. from East to Silver Sts. and Market St. from Silver St. to Beharrel Ave., to Goulding Bros., New Albany. Engrs. ests. $14,750 and $22,129 respectively. Noted Apr. 24.

Michigan—State Hy. Dept. at office Comrs. Huron Co., Bad Axe, grading and surfacing 4.04 mi. State Trunk Line Rd. 27-19, 38,527 sq.yd. gravel, 15,664 cu.yd. excav., etc., to Harbor Beach Mfg. Co., Harbor Beach, $58,794. Noted May 15.

Michigan—State Hy. Dept. at office Comrs. Lapeer Co., Lapeer, grading and surfacing road in Davison Village, concrete, to Rowe Constr. Co., Sebeawing, $37,960.

Michigan—State Hy. Dept. at office Comrs. Saginaw Co., Saginaw West Side, grading and concrete surfacing 1 mi. road in Merrill, to F. McNally, Saginaw, $34,293; graveling 3 mi. road in Birch Run and Frankenmuth Twps., to Bennett & Crane, St. Charles, $30,142.

Michigan—State Hy. Dept. at office Comrs. Calhoun Co., Marshall, grading and gravel surfacing 1½ mi. road in Leroy Twp. and 7 mi. Ceresco-Burlington Rd., to H. A. Drake & Son, Battle Creek, $8,639 and $49,900 respectively.

Michigan—State Hy. Dept. at office Comrs. Oakland Co., Pontiac, grading and surfacing 2.25 mi. State Trunk Line Rd. 10-39, Sect. D, 53,397 sq.yd. concrete, 44,217 cu.yd. excav., etc., to R. D. Baker & Co., 1454 Penobscot Bldg., Detroit, $186,956. Noted May 29.

Michigan—State Hy. Dept. at office Comrs. Sanilac Co., Sandusky, grading and sheet asphalt surfacing 1.464 mi. State Trunk Line Rd. 38-7 B, to Willite Road Constr. Co., 711 Union Trust Bldg., Detroit, $29,914.

Mich., Dearborn—Paving, curbs, sewers, ètc. in 34,000 sq.yd. Michigan Ave., 8 in. concrete, o Otis Cement Constr. Co., 806 Hammond Bldg., Detroit, $119,000.

Mich., Detroit—To Detroit Asphalt Paving Co., 909 Free Press Bldg., grading, curbing and paving with 3½ in. sheet asphalt on 8 in. concrete, St. Jean Ave. $13,099, Loyo Ave. $76,560, South St. $13,209, Winfield Ave. $33,263, Drexel Ave. $31,331, Longfellow Ave. $15,243; to Cleveland Trinidad Paving Co., 402 Hammond Bldg., Wilson Ave. $17,762, Kendall Ave. $13,409, Idaho Ave. $13,189; to Cooke Asphalt Paving Co., 1260 Penobscot Bldg., Charest Ave. $37,699, Colton Ave. $23,528, State Fair Ave. $41,458. Noted May 29.

Mich., River Rouge—Paving 29,131 sq.yd. Walnut, Chestnut, Palmerston, Batavia, Burke, Perrin, Dwight and Summitt Sts., 7 in. concrete to R. J. Powelson Co., 6415 Iroquois Ave., Detroit, $111,162.

Mich., Springwells—B. P. Esper, city clk., paving Schafer Rd. south of Michigan Central Ry. 42,105 sq.yd. 8 in. concrete, to M. R. Hanna Co., 1636 Dime Bank Bldg., Detroit, $227,030; 2,791 ft. 12- to 36-in. vitr. crock sewer in Detroit Seamless Steel Tube Co., Subdivision, here, to Wayne Constr. Co., Detroit, $14,000.

Ill., Quincy—Bd. Local Impvts., to Bauer-Johnson Constr. & Supply Co., 1124 Cass St., Omaha, Neb., asphalt paving 4th St. from Oak to Cherry Sts. $15,555, Cedar St. $14,324, Aldo Blvd. $37,620, Bway. St. from 24th to 30th Sts., Type A, $28,833. Noted May 15.

Wis., Fond du Lac—J. F. Hohensee, city clk., paving 10.795 sq.yd. Everett, 4th and Fond du Lac Sts., concrete, to A. Larson, & Co., Eau Claire; 24,594 sq.yd. Oak Ave., Bannister, Bank, Bell, Marr and Morris Sts., asphalt, to J. Rasmussen & Sons Co., Oshkosh. Noted May 1.

Wis., Horicon—E. H. Higbee, city clk., paving, etc., various streets, 18.300 sq.yd. rein.-con., to Schreiber & Waterford, Randolph, $51,334. Noted May 15.

Wis., Port Washington—A. Lynch, city clk., concrete paving and curbing 11,000 sq.yd. Spring St. and Grand Ave., to S. & H. Constr. Co., 92 Mason St., Milwaukee, $28,076. Noted May 22.

Ia., Anamosa—Paving, etc., to Ford Paving Co., Cedar Rapids, 21,312 sq.yd. bitulithic at $2.44 per sq.yd. Noted May 8.

Ia., Newton—Resurfacing with 1½ in. asphalt about 46,930 sq.yd. various streets, to J. S. McLaughlin & Sons, Mankato, Minn., at $1.03 per sq.yd.

Minn.,., Benson—Swift Co., improving Job 2401, Sects. A, B and C, 59,538 cu.yd. excav., 56,327 cu.yd. overhaul, to Martin & Johnson, Glenwood, $17,362; Job 2402, 23,062 cu.yd. excav., 8,533 cu.yd. overhaul, to Jorgenson & Son, Stewart, $10,222; one 100 ft. steel span bridge with rein.-con. abutments, and one 16 ft. I-beam bridge with rein.-con. abutments, to G. F. Johnson, Milan, $7,700 and $1,815 respectively; culverts on Jobs 2401 and 2402 to Wheeling Corrugating Co., 155 26th Ave. S. E., Minneapolis, $4,005. Noted Apr. 10.

Minn., Brainerd—Paving about 25,000 sq.yd. road, to S. A. Riches & Sons, Brainerd, concrete $1.88 and $1.95 per sq.yd.; to Welsh Paving Corp., 703 1st Natl.-Soo Line Bldg., Minneapolis, tarvia $1.30 per sq.yd.

Minn., Elbow Lake—Grant Co., grading 7 mi. Job 2401, State Rd. 9, to H. M. Nelson, Chokio, $12,687; grading 2 mi. of same, to Anderson & Anderson, Wheaton, $2,934, culverts to Elk River Concrete Products Co., Elk River, $1,000; gravel surfacing Job 2404, State Rd. 1, and 7 mi. Job 2405, State Rd. 2, to W. Cosh, Elbow Lake, $6,770 and $6,022 respectively. Noted Mar. 20.

Minn., Faribault—Rice Co., gravel surfacing 4.25 mi. State Rd. 48, Job 2401, 4 mi. State Rd. 53, Job 2402, and 8.5 mi. State Rd. 30, Job 2406, to Lundin Bros., Mankato, $4,174, $4,402 and $7,368 respectively; 6 mi. State Rd. 28, Job 2408, to Western Gravel Co., Minneapolis, $6,470; 7.3 mi. State Rd. 22, Job 2409, to G. Oswald, Gibbon, $5,570; 8.65 mi. State Rd. 6, Job 2410, and 3 mi. State Rd. 29, Job 2411, to Carpenter & Walker, Sauk Centre, $8,112 and $2,164 respectively. Noted Apr. 17.

Minn., LeSueur Center—LeSueur Co., grading Job 2304, State Rd. 13, 49,329 cu.yd. excav., to R. B. Fraser, Northfleld, $0.245 per cu.yd.; Job 2305, State Rd. 20, 42,340 cu.yd. excav., etc., to G. W. McNamara, Windom, $0.28 per cu.yd. Noted May 15

Minn., Minneapolis—Plans to sell $610,000 bonds improving 45 streets involving chiefly grading. Work will be done by day labor. H. N. Knott, city clk.

Minn., Minneapolis—J. A. Ridgway, secy. Bd. Park Comrs., City Hall, 93,000 ft. colored curb in Minnehaha Parkway, Lake Nokomis and Lake Dists., also 3,000 sq.yd. concrete tennis courts in Nicollet Field, to Simonson & Emstad, Builders Exch., $0.40 per ft. and $1.42 per sq.yd. respectively; 7,300 sq.yd. colored walks in Lake Dist., to J. R. Seirup, St. Louis Park, $1.23 per sq.yd. Noted May 1.

Minn., Minneapolis—Hennepin Co., grading and bitulithic paving about 40,000 sq.yd. "Country Club" Dist., south and west of here, to General Contg. Co., 1222 Plymouth Bldg., $150,000.

Kan., Coffeyville—Grading and surfacing various streets, 24,000 sq.yd. brick on concrete, 16,000 cu.yd. excav., 13,700 lin.ft. curb and gutter, to C. Stanton, Coffeyville, $99,578. Noted Apr. 17.

Kan., Olathe—Johnson Co. surfacing 2.866 mi. Federal Aid Project 238-A, brick on macadam, to Cook & Stucker, Ottawa, $101,350. Noted Apr. 4.

Kan., Oskaloosa—Jefferson Co. (**e. e. means engrs. est.**) grading and surfacing 0.97 mi. Federal Aid Project 227-B, 18 ft., brick, to Cook and Stucker, Ottawa, $45,450, **e. e.** $51,242, 0.528 mi. Federal Aid Project 222-D, 18 ft., concrete, to Ritchie & Ramsey, 809 West 8th St., Topeka, $35,427, **e. e.** $36,736, 7.708 mi. Federal Aid Project 220-A, 18 ft., bituminous macadam, to H. Tidd, Hutchinson, $219,243, **e. e.** $224,312, 6.53 mi. Federal Aid Project 220-B, 18 ft., bituminous macadam, to J. K. Shinn, Independence, $147.530, **e. e.** $149,351; grading 6.35 mi. Federal Aid Project 222-A, 28 ft., to Larmoreaux Bros., 416 Arthur Bldg., Omaha, Neb., $25,395, **e. e.** $29,549. Noted May 9.

Kan., Troy—Doniphan Co., to M. W. Watson, 1447 Fillmore St., Topeka, grading and concrete surfacing 1.004 mi. Federal Aid Project 169-E, 18 ft., $74,338, engrs. est. $76,094; to A. L. Cook, Ottawa, grading 8.012 mi. Federal Aid Project 169-A, 29.5 ft., $52,154, engrs. est. $61,964, 7.292 mi. Federal Aid Project 169-C, 28 ft., $60,848, engrs. est. $73,219. Noted Apr. 10.

Neb., Fairburg—For 18,865 yd. paving and 11,458 ft. curb and gutter in Paving Dist. 5, to Roberts Constr. Co., 415 1st Natl. Bank, Lincoln, approximately. $45,000. Engineers est. $48,000.

Neb., Hastings—Paving 10 blocks various streets, 13,000 sq.yd. sheet asphalt, to

Streets and Roads (Continued)

A. A. Dobson Constr. Co., 804 First Natl. Bank Bldg., Lincoln. $31,850.

Neb., Omaha—To Abel Constr. Co., 320 Terminal Bldg., paving in Dist. 402, $19,098, and Dist. 567 $4,457, both asphaltic concrete, Dist. 583, $13,564, and Dist. 585, $2,520, both sheet asphalt, to Cochrane Constr. Co., 822 1st Natl. Bank Bldg., paving in Dist. 495 $41,515, asphaltic concrete and sheet asphalt. Noted May 29.

South Dakota—State Hy. Comn., Pierre, to W. R. Larson Constr. Co., 519 Secy. Nat'l. Bank Bldg., Sioux Falls, improving 2.74 mi. F. A. P. 130 B, 4,977 yd. rock excav. at $1.75 per yd., 4,782 yd. loose rock excav., $9.75, 12,174 yd. common excav., $9.45, etc., total approximately $27,500. Noted May 8.

N. D., Cooperstown—Griggs Co., graveling, etc., 11.3 mi. Federal Aid Project 108, B and C, 15,478 cu.yd. load, unload and spread, screening, 42,852 cu.yd. mile haul, etc., to Stephens Bros., Piedmont Bldg., St. Paul, Minn., $14,706; 10 mi. F. A. P. 109, A and B, 13,020 cu.yd. load, unload and spread, screening, 22,635 cu.yd. mile gravel haul, to A. Ketzloff, Binford, $10,829. Noted Apr. 3.

N. D., Ellendale — Dickey Co. grading 6.25 mi. Federal Aid Project 211A, 51,152 cu.yd. excav. etc., also 7.889 mi. Federal Aid Project 212, 74,356 cu.yd. excav., etc., to N. Brolander, $20,000 and $26,000 respectively. Noted May 8.

N. D., Williston—Williams Co. grading about 10 mi. Federal Aid Project 250A, 43,424 cu.yd. excav., etc., and Federal Aid Project 250B, 24,392 cu.yd. excav., etc., to Schultz Bros., Bowbells. Noted May 1.

N. D., Grafton—Walsh Co. grading 9 mi. Federal Aid Project 166, 71,892 cu.yd. earth and 1,440 cu.yd. rock excav., etc., also 9 mi. Federal Aid Project 245, 50,358 cu.yd. earth and 955 cu.yd. rock excav., etc., to W. H. Noel, Jamestown, $28,841 and $21,382 respectively.

Montana—State Highway Comn., Helena, gravel surfacing 5.6 mi. Project 191, section Pablo-Polson Rd., Lake Co., to Pioneer Constr. Co., Bozeman, $36,877. Noted May 15.

Mont., Anaconda—Resurfacing 8 blocks Main St. and Park Ave., about 17,500 sq.yd. warrenite bitulithic, to F. M. Bingham, Anaconda, $1.85 per sq.yd.

Mo., St. Louis — Bd. Pub. Serv., to Central Paving & Constr. Co., 6161 Maple Ave., paving with willite on concrete, etc. 15,540 sq.yd. Botanical St., $70,981, 17,785 sq.yd. Castleman Ave., $91,408, 15,368 sq.yd. Cleveland Ave., $64,901, 15,380 sq.yd. Flad Ave., $66,465, 4,190 sq.yd. Loughborough Ave., $21,788, removing old granite blocks and sheet asphalt paving 21,455 sq.yd. Chouteau and Manchester Sts., $50,961, 2,435 sq.yd. Ohio Ave., $10,222, 2,650 sq.yd. Beacon Ave., $10,863; to Webb-Kunze Constr. Co., 5927 Fyler Ave., 3,125 sq.yd. Sulphur Ave., asphalt on concrete, $17,662; to Trinidad Asphalt Mfg. Co., 8,895 sq.yd. Bell Ave., asphalt on concrete, $37,086; to Granite Bituminous Paving Co., Railway Exch. Bldg., 1,785 sq.yd. Wyomoning St., $9,908, 2,210 sq.yd. West Florissant St., $15,325, 4,885 sq.yd. Margaretta St., $26,284, 4,330 sq.yd. San Francisco St., $28,889, all warrenite on concrete.

Ark., Little Rock—Paving with asphalt on concrete 9,500 sq.yd. Dist. 363, to M. D. L. Cook, Southern Trust Bldg. Engrs. est. $100,000. Noted Apr. 24.

Ark., Springdale—Paving 11 blocks Dist. 1, 13,000 sq.yd. asphaltic concrete on concrete, 5,300 lin.ft. concrete gutter, 3,000 lin.ft. concrete curbing, 4,000 cu.yd. grading, etc., to C. A. Moreno Constr. Co., Syndicate Trust Bldg., St. Louis, Mo. Engrs. est. $42,500. Note May 1.

Tex., Cisco—Paving 8 blocks Ave. D, 3 in. brick on concrete, to Jordan Paving Co., Plainview. $40,000.

Tex., Corpus Christi—Nueces Co. paving with bituminous macadam 5.23 mi. State Highway 12-Z, Federal Aid Project 424, 18 ft., to Smith Bros. Inc., Amer. Exch. Bank Bldg., Dallas, $104,809. Noted Apr. 24.

Tex., Jacksboro—Jack Co. grading, etc. 16.94 mi. Mineral Wells-Jacksboro Rd., to Womack Constr. Co., Sherman, $89,165. Noted May 1.

Tex., San Antonio—Rock asphalt surfacing Buluerde Rd., from North Loop to Nacogdoches Rds., to Chapin-Kemp Co., 911 Austin St., $0.49 per yd. (3 yr. maintenance).

Okla., Enid—Grading and paving West Market St., asphalt on concrete, to B. J. and L. Paving Co., Enid. Engrs. est. approximately $25,000.

Colorado — State Hy. Dept., Denver, gravel surfacing 3.03 mi. Federal Aid Project 266-A, La Plata Co., to Mishon Engler & Tessier, Durango, $22,233, engrs. est. $26,992; concrete paving 2.53 mi. Federal Aid Project 283-A, Larimer Co., to F. C. Dreher, 525 Cooper Bldg., Denver, $84,830, engrs. est. $87,930. Noted May 22.

Washington—State Hy. Comn., Olympia, grading and gravel surfacing 9 mi. State Rd. 14, Kitsap Co., to Holmberg & Norman, Port Orchard, 92,450 cu.yd. earth excav. $0.40 per cu. yd., 132,920 cu.yd. overhaul, $0.03, etc., total $80,975, 7 mi. State Rd. 12, Lewis Co., to Hendricks & Olson, Chehalis, 49,580 cu.yd. earth excav. $0.42, 10,120 cu.yd. loose rock excav. $0.65, 6,120 cu.yd. solid rock excav. $1.25, etc., total $66,055; grading and surfacing with crushed rock 3.7 mi. State Rd. 5, Lewis Co., to Graham Bros. & Medley, Chehalis, 45,300 cu.yd. earth excav. $0.50, 2,370 cu.yd. loose rock excav. $0.70, 1,340 cu.yd. solid rock excav. $1.75, 2,730 cu.yd. crushed rock $2, etc., total $50,300; crushed rock surfacing 32 mi. State Rd. 2, Kittitas and King Counties, to F. J. Redmon, Yakima, 20,100 cu.yd. crushed rock $2.11, 3,575 cu.yd. crushed rock in storage piles $2.11, total $50,165; clearing and grading 2.5 mi. State Rd. 3, Whitman Co., to J. E. Edwards, South 1423 Adams St., Spokane, 51,240 cu.yd. earth excav. $0.30, 1,500 cu.yd. solid rock excav. $1.40, etc., total $25,149; 2.7 mi. State Rd. 1, Snohomish Co., to Rumsey & Jordan, Builders, Exchange, Seattle, 219,440 cu.yd. borrow $0.54, etc., total $124,542. Noted May 8.

Ore., Portland—Paving Front St. through railroad yards, to S. Simonson, Portland, $303,381.

California—State Highway Comn., Sacramento, 9.4 mi. grading, between east boundary and San Juan Bridge, Orange Co., to Williams & Singletary, Colton, $26,034, engrs. est. $27,750; 8.3 mi. between Vacaville and Batavia, Solano Co., 0.4 mi. concrete, 7.9 mi. asphaltic concrete, to Force & Currigan, Sherlock Bldg., Portland, Ore., $218,346, engrs. est. $227,031. Noted May 15.

Calif., Compton—To G. H. Oswald,, 366 East 58th St., Los Angeles, improving Spring St., 22,000 sq.ft. grading $0.055, 22,000 sq.ft. concrete $0.20, 1,420 ft. curb $0.60, 8,150 sq.ft. walks $0.20, 929 ft. 8 in. cement sanitary sewer $1.30; Stockton Blvd., etc., 79,180 sq.ft. grading $0.025, 79,180 sq.ft. 5 in. concrete $0.20, 2,118 ft. 4 in. wood stave water pipe $1.40.

Calif., Fresno—Improving Rd. Impvt. Dist. 8, to Thompson Bros., G and Divisadero Sts., 118,400 sq.ft. 3½ in. concrete walks $0.155, 22,500 ft. concrete curb $0.40, grading $0.10, total $29,302. Noted May 29.

Calif., Fresno — Improving Fresno St., 237,405 sq.ft. grading, 221,142 sq.ft. asphalt, 4,258 ft. concrete, etc., to Federal Paving Co., Brix Bldg., $64,115. Noted May 29.

Calif., Los Angeles—Improving 23rd St., to O. U. Miracle, 1036 Lime Ave., Long Beach, grading $8,500, 135,847 sq.ft. concrete $0.225, 6,455 ft. curb $0.70, 21,125 sq.ft. walks $0.22, cement pipe sewer $2,900, etc.

Calif., Oakland—Improving portion East 12th St., etc., 285,411 sq.ft. grading, 7,831 ft concrete curb, 8,400 sq.ft. concrete gutter, 212,482 sq.ft. 2 in. warrenite on 6 in. concrete to Hutchinson Co., 1706 Bway., $106,211; 13th Ave., etc., 262,467 sq.ft. grading, 10,515 ft. concrete curb, 1,219 ft. concrete curb with steel guard, 13,623 sq. ft concrete gutter 247,882 sq.ft. 1½ in. warrenite on 5 in. concrete, to Warren Constr. Co., Bacon Bldg., $98,194. Noted May 22.

Calif., Pasadena — Paving Bway. between Green and Glenarm Sts., 7 in. concrete, to Ducey & Breitstein, Pasadena, $106,789.

Calif., Salinas — Improving portion San Luis St., 82,558 sq.ft. grading, 82,558 sq.ft. 5 in. concrete, 3,667 lin.ft. curb, to Downer & Mero, 2234 Macdonald Ave., Richmond, approximately $22,500. Noted May 15.

Calif., Santa Rosa—Sonoma Co., to R. P. Smith, c/o Co. Survs. Office, Santa Rosa, improving Western Ave. near Petaluma, 1,840 cu.yd. excav. $1.60 per cu.yd., 1,468 cu.yd. concrete $11.75; to A. Teichert & Sons, 1846 37th St., Sacramento, improving Pocket Canyon Rd. Project, $180,607.

Ont., London — Suburban Highways Comn., 2 mi. concrete pavement strips with gravel in center on Hyde Park Highway, 3 and 3½ ft. wide, to King Constr. Co., Oakville, $28,000. Engrs. est. $35,000.

Ont., Windsor — Concrete pavements, to Merlo, Merlo & Ray, Walkerville, $14,000, and to S. P. West, 11 Sandwich St., E., Sandwich, $19,000. Engrs. est. $35,000.

Industrial Works

PROPOSED WORK

N. H., Nashua—Factory—J. F. McElwain Shoe Co., plans new factory addition.

Mass., Gardner—Factory—Travers Mfg. Co., East Templeton, plans new factory. C. G. Brooks, chn. Chamber of Commerce Promotion Com. $125,000.

Mass., Marlboro—Factory—Marlboro Wire Goods Co., having plans prepared, 3 story, 70 x 150 ft., rein.-con., brick and steel. $150,000-$170,000. Private plans.

Mass., Springfield—Plant—Westinghouse Electric Co., Pittsburgh, Pa., having plans prepared by McClintock & Craig, engr., 33 Lyman St., 2 story, 80 x 90 ft. rein.-con. and brick heating plant and boiler house, Worthington St., East Springfield. $250,000.

Conn., New Haven — Factory — Electro Thermal Mchy. Co., 82 Church St., having plans prepared by Dwight Smith c/o owner, 1 story, 88 x 182 ft., rein.-con., brick and steel, $50,000. F. W. Thompson, 82 Church St., engr.

N. Y., Hudson—Plant—C. A. Van Deusen Co., having preliminary plans prepared by Monks & Johnson, 99 Chauncey St., Boston, Mass., 5 story, rein.-con. $250,000.

N. Y., Niagara Falls—Plant—International Cooperage Co., Erie Ave. and 9th St., plans rebuilding plant Erie Ave., recently destroyed by fire. $100,000.

N. Y., Utica—Plant—Scala Packing Co., 1930 Canal St., plans brick and steel packing plant, 417 Main St. $75,000.

Pa., Bowers—Repair Shops, etc.—Western Maryland Ry. Co., Standard Oil Bldg., St. Paul and Franklin Sts., Baltimore, Md., plans rebuilding locomotive repair shops and engine house, here, partly destroyed by fire. Estimated loss $250,000.

Tenn., Morristown — Light Plant — See "Waterworks."

O., Columbus—Factory—V-W Ventilator Co., 315 Weesley Blk., having plans prepared 2 story and basement, concrete and steel, West Rich St. $40,000. Private plans.

O., Columbus—Factory—Columbus Trunk Co., Dublin Rd. and Scioto River, having plans prepared by O. D. Howard, East Broad St., 2 story, 60 x 160 ft., rein.-con. and brick, Dublin Rd. and Scioto River. $60,000.

Ill., Chicago—Factory—Bates Valve Bag Co., 7310 South Chicago Ave., having plans prepared by J. L. McConnell, 111 West Jackson Blvd., 3 story, 120 x 240 ft., fireproof, 8240 South Chicago Ave. $150,000.

Ill., Granite City—Blast Furnace, etc.—St. Louis Coke & Iron Co., 117 North 4th St., St. Louis, Mo., soon takes bids blast furnace and power plant, here. $2,500,000. Private plans.

Wis., Milwaukee—Factory—Walsh Harness Co., 290 3rd St., plans 1 and 2 story, 100 x 150 ft., brick and timber, plain foundation, Richard St. To exceed $40,000. Engineer and architect not selected.

Minn., Winona—Plant, etc.—Wisconsin Light & Power Co., R. M. Howard, Mgr., rejected bids and will probably have revised plans prepared, brick, rein.-con. and steel addition to boiler plant. $50,000. Mead & Seastone, Journal Bldg., Madison, Wis., engrs. Noted Apr. 17.

Neb., Omaha — Sub-Station — Nebraska Power Co., c/o J. E. Davidson genl. mgr., Electric Bldg., having preliminary plans prepared by F. S. Stott, 206 Kennedy Bldg., 115 x 260 ft. sub-station, and transmission line. $175,000. Noted Apr. 10.

Tex., Dallas—Factory—H. A. Overbeck, archt., Melba Theatre Bldg., takes bids early in June, 2 story, 90 x 140 ft., brick, tile and steel, for Amer. Paper Stock Co., 1210 Marilla St. $100,000.

Okla., Hobert — Plant — Inland Utilities Co., plans new electric light plant, system and oil engine. $100,000. J. E. Wright, Hobert, engr.

Calif., Bakersfield — Refinery — Richfield Oil Co., plans rebuilding refinery, recently destroyed by fire. $200,000 or more.

Calif., Long Beach—Mill—Pacific Coast Steel Co., Rialto Bldg., San Francisco, making plans first unit of plant, incl. blast furnace and 4 by-products coke ovens, here. Ultimate cost $7,000,000. Private plans.

Calif., Los Angeles—Plant—Times-Mirror Printing & Binding Co., 118 South Bway., plans 3 story, 75 x 75 ft., steel and brick printing plant addition, South Spring St.

Calif., Oakland—Factory—Knapp Metal Barrell Co. of Pacific Coast, Balboa Bldg., San Francisco, plans factory, Parr Terminal, here.

Calif., Pasadena—Plant—Star-News Publishing Co., 94 North Raymond Ave., plans fireproof. $100,000 or more.

Industrial Works (Continued)

Calif., Pleasanton—Factory—Griffin Envelope Co. of California, 25 Fremont St., San Francisco, plans factory, here. To exceed $40,000. Engineer and architect not selected.

Calif., Upland—Plant—J. J. Ford, Claremont, plans rock crushing plant, here. $175,000, incl. equipment.

Ont., Deseronto—Factory—E. B. Eddy Co. Ltd., Hull, Que., plans brick and concrete, here. $250,000.

Ont., Sarnia — Factory — Doherty Stove Co., Sarnia, plans 150 x 400 ft. factory. $150,000.

Ont., Toronto—Factory—Canadian Natl. Carbon Co., Hillcrest Park, plans 3 story and basement, rein.-con., brick and steel factory addition, plain foundation. $150,000. Engineer and architect not selected.

B. C., Burnaby — Sub-Station — British Columbia Electric Ry. Co., 425 Carroll St., Vancouver, having plans prepared addition to Horne Payne substation here. $250,000.

BIDS DESIRED

Mass., Boston—Factory and Boiler House—J. C. Pushee & Sons, Randolph St., taking bids, 5 story and basement 65 x 133 ft. factory and 30 x 50 ft. boiler house, rein.-con., Randolph St. Monks & Johnson, 99 Chauncy St., archts. $200,000.

Pa., Pittsburgh—Power House—D. L. Clark Co. will build 2 story, brick and concrete, Merchant and Martindale Sts., by separate contracts. P. Dietz, Lyceum Bldg., archt.

O., Columbus—Plant—Lockwood, Greene & Co., archts. and engrs., Hanna Bldg., Cleveland, taking bids 3 story, 100 x 240 ft. manufacturing building, rein.-con., also 50 x 360 ft. forge shop, 50 x 167 ft. storage, and 50 x 117 ft. hot bolt shop, all steel, here, for Columbus Bolt Wks., Water and Chestnut Sts. Noted May 15.

Mich., Iron Mountain—Mill—Ford Motor Co., Highland Park (Detroit, P. O.) taking bids 1 story, 79 x 260 ft., brick and steel, plain foundation, here. A. Kahn, Marquette Bldg., Detroit, archt.

Calif., Los Angeles—Bakery—C. C. Ruppenthal, archt., 2075 West Washington Blvd., taking bids, 3 story and basement, 150 x 200 ft., brick and concrete, Mignonette St., for Davis Standard Baking Co., 124 North Beaudry St. $100,000.

CONTRACTS AWARDED

Mass., Boston — Factory — Union Realty Co., c/o H. F. Livermore, 100 Cummington St., 2 story and basement, 75 x 240 ft., rein.-con. and brick, Linden St., Ward 25, Allston Dist., to Clark & Lee Co., 77 Summer St., $100,000. Noted May 29.

Mass., Boston—Plant—Green Shoe Mfg. Co., 75 Northampton St., 5 story and basement, 42 x 170 ft., brick and timber, Harrison Ave., to Canter Constr. Co., 6 Beacon St. Archts. est. $100,000. Noted May 15.

Mass., West Lynn—Plant—General Electric Co., 1 story, 80 x 120 ft., concrete and steel maintenance plant, to M. C. Tuttle Co., 862 Park Sq. Bldg., Boston. Archt. est. over $50,000.

N. J., Camden—Factory—Campbell Soup Co., 32 North Front St., 2 story, 20 x 140 ft., rein.-con. and brick addition, plain foundation, Arch St. near 2nd St., to W. Steele & Sons Co., 219 North Broad St., Phila., $50,000. Noted Jan. 17.

N. J., Morris Plains—Power Plant—A. B. Mills, state archt., State Office Bldg., Trenton, power plant, conveyor, etc., for State Hospital for Insane, here, to G. K. Kemp, Rutherford, $199,731.

Pa., Meadville — Factory — Hookless Fastener Co., general contract 5 story, 70 x 70 ft., brick on hollow tile, to E. E. Austin & Son, Commerce Bldg., Erie. Archts. est. $60,000.

Pa., Phila.—Plant—General Electric Co., Witherspoon Bldg., 6 story and basement, 105 x 604 ft., rein.-con., plain foundation, Elmwood Ave. between 68th and 70th Sts., to Turner Constr. Co., 1713 Sansom St. Archts. est. $1,000,000.

Pa., Phila.—Factory—Heintz Mfg. Co., Front and Olney Sts., 1 story, 50 x 70 ft. corrugated iron and steel addition, to Robinson Iron & Steel Co., Parker and Ambria Sts., Manayunk, (Phila., P. O.)

Pa., Phila.—Plant—O'Brien Machine Co., E and Tioga Sts., will build 1 story, 61 x 155 ft., steel addition, by day labor. $55,000. F. H. Buchanon, E and Tioga Sts., engr.

Pa., Phila.—Manufacturing—C. P. Codivane Co., Kensington and Butler Sts., 2 and 3 story, 79 x 155 ft. and 42 x 155 ft., brick and steel addition, plain foundation, to W. Steele & Sons, 219 North Broad St. Engrs. est. $60,000.

Va., Richmond — Factory — Wortendyke Mfg. Co., Foot 13th St., 4 story, rein.-con. and steel addition, 68,000 sq.ft. floor space, to Harrison Constr. Co., Virginia Railway & Power Co. Bldg. Archts. est. $200,000.

Tenn., Nashville — Plant — Methodist Episcopal Publishing Co., 810 Broad St., remodeling and constructing 3 story, brick and concrete addition, 9th and Broad Sts., to H. P. Jacobs & Co., Independence Life Bldg., $40,000.

Ky., Louisville—Foundry—Standard Sanitary Mfg. Co., 6th and A Sts., 1 story, 140 x 180 ft., to L. W. Hancock Constr. Co., Louisville Trust Bldg., about $90,000. Noted May 22.

Ill., Galesburg — Substation — See "Unclassified" under Illinois.

Wis., Evansville—Mill—Evansville Grain & Feed Co., will rebuild 2 story, 50 x 75 ft., brick and concrete, plain foundation, recently destroyed by fire, by day labor. Private plans. Noted Jan. 31.

Wis., Marshfield—Cold Storage Plant—Brookshire Cheese Co., Plymouth, 1 story and basement 50 x 100 ft., concrete and brick, plain foundation, here, to Krasin Bros., Central Ave. Archts. est. $50,000.

Wis., Oconto—Mill, etc.—Holt Hardwood Co., will build 1 story, 72 x 302 ft. mill, dry kilns and 100 x 100 ft. shed, brick and timber, plain foundation, by day labor. To exceed $40,000. Private plans. Noted May 15.

Wis., West Bend—Factory—Amity Leather Products Co. 2 story, 50 x 90 ft., rein.-con., brick and steel, plain foundation, to The Hutter Constr. Co., Western Ave., Fond du Lac. Engineers est. $45,000. Noted May 8.

Tex., Dallas—Factory—Ford Motor Co., Highland Park, Detroit, Mich., 1 story, 301 x 840 ft. assembly plant, 63 x 114 ft. oil house, 63 x 69 ft. power plant, concrete, brick and steel, to Inge Constr. Co., Swiss and Hawkins Sts., approximately $1,000,000. Noted Apr. 10.

Tex., Dallas — Factory — Sanger Bros., Main & Lamar Sts., 4 story and basement, concrete and brick, Jackson St., to Trinity Constr. Co., Southwestern Life Bldg., $110,000.

Ore., Portland—Repair Shop—See "Buildings."

Calif., Emeryville—Factory—Letts Oliver Investment Co., 1 story, brick, Park Ave., to N. J. Christensen, 505 17th St., Oakland, $42,000. Western Electric Co., 680 Folsom St., San Francisco, lessee.

Calif., Los Angeles—Service Plant—Albertson Motor Co., 1540 South Figueroa St., 1 story, 100 x 125 ft., brick, Pasadena Ave. and Ave. 50, to Macdonald & Driver, Douglas Bldg.

Calif., Oakland—Factory—Illinois Wire & Cable Co., Sycamore, Ill., first unit, incl. 6 concrete and brick factory buildings, 80th Ave., here, to Davison & Nicolson, 31 South Sutter St., Stockton, $40,600. Noted Apr. 10.

Calif., Pomona—Laundry—Consolidated Laudries, Inc., 600 Merritt Bldg., Los Angeles, 1 story and part basement, 100 x 115 ft., brick, Monterey and Eleanor Sts., here, to E. Cerciat, 316 South New Hampshire St., $45,000. Noted Jan. 17.

Calif., Sacramento—Plant—J. P. Hynes Packing Co., 507 F St., packing plant, to E. D. Brier, 813 J St., approximately $42,000.

Ont., Island Falls via Cochrane—Power Plant, etc.—Hollinger Consolidated Gold Mines Ltd., Timmins, transferred contract for 110 x 180 ft., concrete power plant, 175 ft. high, concrete dams, sluices, sluice gates, tailrace excav., etc., from W. Arrol Co., Ltd., St. Catharines, to Fraser, Brace & Co., 83 Craig St., Montreal, Que. Engrs. est. $3,000,000.

Buildings

PROPOSED WORK

Mass., Boston — Hospital — City plans hospital for consumptives, Harrison Ave. and Concord St. $225,000. French & Hubbard, 210 South St., archts. and engrs.

Mass., Boston—Hotel—I. Shapira, 60 State St., having plans prepared by G. N. Jacobs, 4 Park St., 15 story and basement, 65 x 130 ft., rein.-con., brick and steel, Clarendon and Stanhope Sts. To exceed $1,000,000.

Mass., Boston—Hotel—Statler Hotel Co., 7th Ave., and 33rd St., New York City, rejected bids, 12 story, brick, stone and steel, Arlington St., here. $4,000,000. G. B. Post & Sons, engrs., 101 Park Ave., New York City. Project postponed until fall. Noted Apr. 3.

Mass., Brighton (Boston P. O.)—Apartment—York Apartment, Inc., c/o W. L. Minor, archt., 60 Pemberton Sq., Boston, having plans prepared, (1st of 8 units), 3 story, 53 x 90 ft., brick and stone, Allston St., here. $350,000.

Mass., Methuen (Lawrence P. O.)—School—School Comm. plans Central Grammar School, rein.-con., brick and stone. $225,000. Ashton, Huntress and Alter, 477 Essex St., Lawrence.

Mass., Somerville (branch of Boston)—Memorial—City having preliminary plans prepared by Ritchie, Parsons and Taylor, 15 Ashburton Pl., Boston, 2 and 3 story, 54 x 108 ft., brick and stone, Highland Ave. to adjoin City Hall. $200,000. J. M. Webster, Mayor.

Mass., Waltham—City Hall—Having preliminary plans prepared by Killam, Hopkins & Greeley, 9 Park St., Boston, rein.-con. and brick, Common St. About $200,000. H. T. Beal, mayor.

Mass., West Springfield (Springfield P. O.)—School—Town taking sketches for school 16 rooms each 24 x 30 ft. with enclosed wardrobes and assembly space in basement. $150,000.

Conn., Bridgeport—Store—D. M. Read Co., 1102 Main St., having preliminary plans prepared by Monks & Johnson, archts., 99 Chauncy St., Boston, Mass., and J. W. Northrop, associated archt., Court Exchange Bldg., 6 story and basement, rein.-con. and steel, Broad and John Sts. $1,000,000. Noted Oct. 4, 1923.

Conn., Middletown—School—Middletown Trade School, having plans prepared by R. B. Sellew, Central Natl. Bank Bldg., 2 story, 80 x 104 ft., brick and stone, Church St., $170,000 to $200,000. E. B. Sellew, supt.

N. Y., Akron—High School—Voted $150,000 bonds for high school.

N. Y., Brooklyn—Theatre and Stores—Henrick Realty Co., c/o H. J. Nurick, archt. and engr., 44 Court St., having plans prepared 2 story, brick, steel and stone, plain foundation, East 34th St. and Flatbush Ave. $500,000.

N. Y., Johnson City — Lodge — Johnson City Lodge 970 F. & A. M., plans 3 story and basement, Main St. $150,000. C. Watson, chn. building com.

N. Y., Mt. Kisco—Plans 1¾ mi. rein.-con. road, curbs and gutters, etc. $121,000. Westchester Co. to pay one half the cost.

N. Y., New York—Apartment—I. Crausman, archt. and engr., 370 East 149th St., preparing plans 6 story, brick, steel and stone, plain foundation, Bedford Park Blvd. $225,000. Owner's name withheld.

N. Y., New York — Apartment — One Hundred Eleven West 16th St. Corp., J. I. Walsh, pres., c/o Gronenberg & Leurchtag, archts. and engrs., 450 4th Ave., soon takes bids 6 story, brick, steel and stone, plain foundation, 107 West 16th St. $200,000.

N. Y., New York—Apartment—Springsteen & Goldhammer, archts. and engrs., 32 Union Sq., preparing plans 5 story, 80 x 100 ft. brick, steel and stone, plain foundation, Seaman Ave. $175,000. Owners name withheld.

N. Y., New York — Clubhouse — Amer. Womens Assn., Inc., 220 Madison Ave., having plans prepared by Benjamin W. Morris, archt. and engr., 101 Park Ave., 18 story, 200 x 200 ft., brick and stone, plain foundation, West 23rd St. $4,000,000.

N. Y., New York—Hospital—Bronx Hospitl, 169th St. and Fulton Ave., having plans prepared by L. A. Abramson, engr. and archt., 46 East 46th St., 5 story, brick, steel and stone addition, plain foundation. $750,000.

N. Y., New York—Office—Brown Pl. Realty Co., c/o C. B. Meyer, archt. and engrs., 36 Union Sq., soon takes bids 3 story, brick, steel and stone, plain foundation, Brown Pl. and 132nd St. $150,000.

N. Y., New York — Office — John David, 33rd St., and Bway., plans 20 story, brick, steel and stone, plain foundation, Bway. $1,500,000. Starrett & Van Vleck, 8 West 40th St., archts. and engrs.

N. Y., New York—Office—Subway Central Building Corp., J. E. Harrington, pres., c/o H. I. Cobb, archt. and engr., 1465 Bway., having plans prepared 22 story, brick, steel and stone, plain foundation, 42nd St. between Bway and 7th Ave. $3,000,000.

N. Y., New York—School—Bd. Educ., 500 Park Ave., having plans prepared by W. H. Gompert, archt. and engr., Flatbush Ave. extension and Concord St., Brooklyn, P. S. 65, 5 story, brick, steel and stone, plain foundation, Johnson Ave.

N. Y., Syracuse—Office—Syndicate purchased site on Seneca and Salina Sts., and plans modern office. To exceed $250,000. Address J. B. Hine, pres. Onondaga Bank.

N. J., Hoboken—Theatre—Strand Theater, c/o C. N. Whintson & Bro., archts. and engrs., 2 Columbus Circle, New York

Buildings (Continued)

City, having plans prepared altering brick, steel and stone, plain foundation, here. $150,000.

N. J., Newark—Store—S. S. Kresge, 526 Fulton St., Brooklyn, soon takes bids 9 story, 160 x 165 ft., brick, steel and stone, plain foundation, Cedar and Halsey Sts., here. $5,000,000. Starrett & Van Vleck, 8 West 40th St., New York City, archts. and engrs.

N. J., Perth Amboy—Bank—First Natl. Bank, having preliminary plans prepared by Dennison & Hirons, 288 Lexington Ave., New York City, bank, Smith and Maple Sts. $400,000.

N. J., Princeton—Chemistry—Princeton University plans brick, steel and stone, plain foundation, on campus. $2,000,000. Private plans.

N. J., Moorestown—Community—Moorestown Community Assn., having plans prepared by Karcher & Smith, 34 South 17th St., Phila., Pa., 2 story and basement, 30 x 80 ft. and 30 x 60 ft., 16 East Main St. $200,000.

Pa., Etna—High School—School Dist., c/o G. A. Spear, having sketches made by P. C. Dowler, Magee Bldg., Pittsburgh, 2 story and basement, brick and hollow tile, Hickory St. Election June 15, $250,000 bonds for project.

Pa., New Kensington—High School—Bd. Educ., having plans prepared by C. J. Rieger & Co., Citizens Bank Bldg., Pittsburgh, 2 story and basement, brick on hollow tile addition, Ridge Ave. $160,000.

Pa., Phila.—Stores—Middle City Realty Co., L. Cahan, pres., 1324 Walnut St., having revised plans prepared by H. E. Kennedy, 1324 Walnut St., 2 story and basement, 85 x 118 ft., Broad and Locust Sts.

Pa., Woodville—Hospital—Bd. Dirs. of Poor, Alleghany Co. Court House, Pittsburgh, having plans prepared by F. M. Crooks, 541 3rd Ave., Pittsburgh, 2 and 3 story and basement, brick on hollow tile here. $850,000.

Pa., York—Hospital—York Hospital, c/o G. H. Whiteley, having plans prepared by E. Leber, Hay Bldg., hospital. $1,000,000.

D. C., Wash. — Bank and Office — Natl. Savings & Trust Co., 15th and New York Aves., having plans prepared by A. P. Clark, Jr., 816 14th St., bank and office building. $300,000.

W. Va., Martinsburg — Hotel — Martinsburg Community Hotel Co. engaged J. G. White Eng. Corp., 43 Exchange Place, New York City, to prepare plans for 104 room hotel, Martin and Queen Sts. Approximately $300,000.

N. C., Durham—Theatre—City had plans prepared by Milburn-Heister Co., archts., Durham, theatre in connection with new municipal building. $250,000. R. A. Rigsbee, city mgr.

N. C., Gastonia—Theatre—J. A. Estridge, J. E. Simpson and J. White Ware, all Gastonia, plan 2 story and basement, 50 x 140 ft. $150,000. Engineer and architect not announced.

Ala., Birmingham—Hotel—H. G. Woodward, 1306 South 19th St., plans 12 story, 100 x 125 ft., 20th St. $2,000,000. Engineer and architect not selected.

Tenn., Nashville—Apartment and Theatre—Amer. Building Co. having plans prepared by Tesdale & Stone, Independent Life Bldg., 100 x 180 ft., rein.-con., brick and stone, 25th St. and West End Ave. $1,500,000.

O., Canton—Hospital—City having plans plans prepared by Crow, Lewis & Wick, archts., 200 5th Ave., New York City, and C. Firestone, associated archts., Renkert Bldg., hospital unit, Clarendon Ave., S. W. $375,000. Noted Nov. 1.

O., Cincinnati — Apartment — Woodburn Impvt. Co., having plans prepared by H. Hake, Telephone Bldg., 4 story and basement, terra cotta, rein.-con. and brick, plain foundation, Woodburn Ave. $250,000.

O., Cleveland—Apartment—M. Margolin, 548 East 118th St., had plans prepared by M. Weis, 617 Union Bldg., 3 story and basement, 30 x 117 ft., brick, 10202 Wilbur Ave. $150,000.

O., Cleveland—Commercial and Office—Union Mortgage Co., c/o E. C. Daonst, secy., Natl. City Bldg., having preliminary plans prepared by G. M. Hopkinson, 523 Euclid Ave., 2 story, 96 x 369 ft., concrete, brick and steel top addition, East 6th St. and St. Clair Ave. $350,000.

O., Cleveland Heights (Warrensville P. O.)—Apartments—L. Mason and M. Margolin, 548 East 118th St., Cleveland, had plans prepared by A. W. Harris, Discount Bldg., Cleveland, two 3 story and basement, 38 x 162 ft., brick and timber, Hampton Rd., here. $350,000.

O., Grandview (Columbus P. O.)—Church, etc.—Bd. Trustees Grandview. Upper Arlington and Marble Cliff, plans 2 story and basement, rein.-con. and brick church and social center. $200,000. H. D. Smith, 70 East Town St., Columbus, chn. Miller & Reeves, 20 South 3rd St., Columbus, archct.

O., Sylvania — High School — Bd. Educ. having plans prepared by T. D. McLaughlin, 610 Savings Bldg., Lima, 2 story, brick and concrete. $200,000.

Ind., Anderson—Hospital—Hospital Bd. having plans prepared (1st unit), 2 story, brick wing, plain foundation, 8th St., $120,000. Total cost $250,000. E. F. Miller, Farmers Trust Bldg., archt.

Mich., Detroit—School—St. Cecilias Parish, P. J. Dwan, pastor, 6389 Webb Ave., had plans prepared by Van Leyen, Schilling, Keough & Reynolds, 3440 Cass Ave., 2 story and basement, 16 room, rein.-con., brick and steel, plain foundation, Livernois Ave. $200,000.

Mich., Wakefield — High School — Bd. Educ. plans 3 story, brick and tile, plain foundation. $200,000 to $300,000. V. Lepisto, secy. Engineer and architect not selected.

Wis., Janesville—Hotel—Rowe, Dillard & Rowe, archts., 127 North Dearborn St., Chicago, Ill., soon take bids 6 story and basement, brick and concrete, plain foundation, Milwaukee St., here, for E. W. Sparling, c/o Colonial Club. $500,000. Noted Mar. 20.

Wis., Madison — Hospital — Methodist Hospital Assn., Pioneer Bldg., having plans prepared by F. H. Ellerbe, Endicott Bldg., St. Paul, Minn., 3 story and basement, 60 x 100 ft., rein.-con., brick and steel, plain foundation. $150,000.

Wis., Milwaukee—Apartment—Deuster, Schwartz & Keuper, 530 Grand Ave., plans 3 story and basement, brick and tile, plain foundation, Grand Ave. and 17th St. $150,000. Engineer and architect not selected.

Mo., St. Joseph—Hotel Apartment—C. G. Geiger, having plans prepared, 10 story and basement, 48 x 165 ft. main building and 46 x 138 ft. wings, rein.-con., brick, stone and steel, 7th and Robidoux Sts. $800,000. Private plans.

Mo., St. Louis—Church, School, etc.—St. Cecelias Parish, c/o B. J. Benton, pastor, 5404 Louisiana Ave., having preliminary sketches made by H. P. Hess, 1237 North Taylor Ave., 2 story and basement, rein.-con., brick, stone and terra cotta, Louisiana Ave.

Mo., St. Louis—School—Bd. Educ., 911 Locust St., soon takes bids 2 story, rein.-con., brick and stone. $200,000. R. M. Milligan, c/o Bd. Educ., engr. and archt.

Mo., Webster Groves—High School—Bd. Educ., c/o E. H. Tenny, pres., soon takes bids 2 story and basement, 175 x 300 ft., rein.-con., brick and stone. $150,000. W. B. Ittner, 911 Locust St., St. Louis, archt. Noted May 29.

Tex., Austin—Dormitory—University of Texas having plans prepared by H. M. Greene & Co., North Texeas Bldg., Dallas, 3 story and basement, brick and concrete, 26th St. and Whitis Ave. $250,000.

Tex., Brownsville — Hotel — Stock Co. plans 8 story, rein.-con. brick and stone, plain foundation, $250,000. S. C. Tucker, Brownsville, chn. Finance Com. Engineer and architect will be selected soon.

Tex., Ft. Worth—Garage and Stores—Fain Bender Motor Co., 907 Commerce St., plans 2 story, 100 x 100 ft., concrete, brick and tile, 3rd and Commerce Sts. $150,000.

Tex., San Antonio—High School—Having plans prepared by W. E. Simpson Co., engrs., N. B. C. Bldg., and Phelps & Dewees, archts., Gunter Bldg., 1 or 2 story, rein.-con. brick and stone, plain foundation, Shook Ave. between Yorkshire and Berkshire Aves. $165,000.

Colo., Ft. Collins—Gymnasium—Colorado State Agricultural College had plans prepared by E. Groves, Foster Bldg., Denver, and takes bids in about 2 months, 1 story, 336 x 400 ft., rein.-con., brick and steel, plain foundation. $280,000.

Calif., Berkeley—Schools—Plans election to vote on $2,000,000 bonds for schools.

Calif., Berkeley—Theatre—A. E. Atkins, c/o W. N. Ratcliff, archt., 1st Natl. Bank Bldg., having sketches made Class A, fireproof, Bancroft Way. $300,000.

Calif., Downey—Theatre and Store—J. F. Baker plans fireproof, on 106 x 140 ft. site, Crawford Ave. $150,000.

Calif., Long Beach—Bank and Office—Bank of Italy, Powell and Market Sts., San Francisco, having plans prepared by H. A. Minton, Bank of Italy Bldg., San Francisco, rein.-con., here. $150,000. Noted Jan. 3.

Calif., Long Beach—Church, etc.—Grace Methodist Church plans group, incl. church, Sunday school and recreation quarters, etc., approximately $250,000.

Calif., Long Beach—Hotel and Store—Campbell & Byrd Investment Co., c/o Siebert & Hedden, engrs. and archts., 548 Amer. Ave., had plans prepared 5 story and basement, 60 x 75 ft., steel and brick.

Calif., Los Angeles—Club—Y. M. C. A., 106 East Bway., plans fireproof. $250,000 to $275,000.

Calif., Los Angeles—Hotel—Central & Pacific Impvt. Co., 104 East Washington St., having plans prepared by Milwaukee Bldg. Co., Wright-Callendar Bldg., approximately 12 story, to contain from 650 to 700 rooms, Class A, fireproof, Bway.

Calif., Los Angeles—Store and Office—Pan-Amer. Petroleum Co., Security Bldg., having plans prepared by Milwaukee Building Co., Wright-Callendar Bldg., 5 to 8 story (ultimately 12 story), fireproof Class A, 10th St. To exceed $150,000.

Calif., Los Angeles—Theatre, Office and Store—West Coast Theatres, Inc., Knickerbocker Bldg., had plans prepared by L. A. Smith, 301 South Western Ave., 2 story, 100 x 150 ft., concrete and brick, Ave. 56 and Pasadena Ave. $155,000. Noted Mar. 20.

Calif., Los Angeles—Warehouse—E. T. Johnson, Pacific Mutual Bldg., having plans prepared by Stanton, Reed & Hibbard, Metropolitan Bldg., 6 story and basement, 150 x 200 ft., rein.-con., 5th St.

Calif., Napa—Hotel—J. Cochrane, pres. Chamber of Commerce, (representing owners), plans 4 story, probably rein.-con., 2nd and Coombs Sts. $250,000 or more. Engineer and architect not selected.

Calif., Oakland—Hotel—Coit Investment Co., c/o L. L. Ford, archt., 306 14th St., having plans prepared, 5 story and basement, rein.-con. and steel, to contain 200 rooms, Harrison and 15th Sts. $1,250,000.

Calif., Quincy—Hotel—C. O. Clausen, archt., Hearst Bldg., San Francisco, making plans, 2 story, brick, here. $150,000. Owner's name withheld.

Calif., Santa Ana—Hospital—Santa Ana Valley Hospital Assn., J. M. Burlew, Santa Ana, interested, soon takes bids fireproof, Grand Ave. $175,000. F. Landsdawn, Santa Ana, archt. Noted June 1, 1923.

Calif., San Francisco—Apartment—C. A. Munroe, c/o A. G. Headman, archt., Call Bldg., had plans prepared 6 story and basement, rein.-con., Geary St. near Hyde St. $150,000.

Calif., South Pasadena (Branch of Pasadena)—High School—South Pasadena High School Dist. voted $185,000 bonds for high school.

Calif., Yreka — Hotel — Weaver Bros., Umpqua Hotel, Roseburg, Ore., plans fireproof, Main St., here. $150,000 to $200,000.

Ont., Toronto—Offices—Federal Building Corp., Federal Bldg., plans 10 story and besement, rein.-con., brick and steel, plain foundation, vicinity of Richmond and Bay Sts. $500.000. Private plans.

BIDS DESIRED

Mass., Brighton (Boston P. O.)—Hospital—Florence Crittendon League, 506 Tremont Temple, Boston, taking bids, 3 story and basement, 32 x 106 ft., brick and stone, Oak Sq., Perthshire Rd. and Dunboy St., here. $250,000. H. F. Kellog, 110 Summer St., Boston, archt.

Mass., Pittsfield — Church — Trinity Methodist Church taking bids, 2 story, 40 x 85 ft., rein.-con., brick and stone, Dalton St. and Woodlawn Ave. Cost not to exceed $150,000. Woodbury & Stuart, 591 Boylston St., Boston, archts.

Mass., Somerville (branch of Boston)—Court House—June 10, by A. L. Cutting, comr. Middlesex Co., Court House, East Cambridge, 1 and 2 story and basement, 48 x 70 ft. with 35 x 45 ft. ell, brick and stone, Walnut St., here. $150,000. C. R. Greco, 11 Beacon St., Boston, archt.

Conn., Norwalk — High School — School Comn., taking bids, Junior High School, 2 story and basement, 94 x 121 ft., pressed brick. $200,000. J. Jackson, 185 Church St., New Haven, archt.

N. Y., New York—School—June 20, by Bd. Educ. at office W. H. Gompert, supt. school buildings, Flatbush Ave. extension and Concord St., Brooklyn, general and tunnel construction for P. S. 173, Ft. Washington Ave. from W. 173rd to 174th Sts., Manhattan Boro, here.

N. J., Bridgeton—Hospital—June 10, by Stearns & Woodnutt, archt., St. Girard Bldg., Phila., Pa., 3 story and basement, 40 x 140 ft. brick and steel, plain foundation, Irving and Magnolia Sts., here, for Bridgeton Hospital Assn. $150,000. Noted May 1.

N. J., Delanco—School—June 23, by Beverly Twp. Bd. Educ., Town Hall, 3

Buildings (Continued)

story, 12 room, Walnut, Burlington and Chestnut Sts. $150,000. H. O. Ziegler, 17 Washington St., Riverside, archt.

N. J., Trenton—High School—June 20, by Bd. Educ., Administration Bldg., 2 story, Junior High School. $1,000,000. W. A. Klemann, 1st Natl. Bank Bldg., archt. E. Sibley, Palisade, engr.

Pa., Phila.—Hospital—June 12, by N. Hulme, archt., 1524 Chestnut St., 3 story and basement, 37 x 108 ft. and 22 x 32 ft., rein.-con. and brick, plain foundation, for Womens Homeopathic Hospital, 20th and Susquehanna Sts. $150,000.

Pa., Pittsburgh—Store and Apartment—Builders Service Co., Magee Bldg., will build 7 story and basement, 46 x 58 ft., brick on hollow tile, 5th Ave. and Chesterfield St., by separate contracts. $200,000. Noted May 22.

Pa., Wilson—High School—June 11, by School Bd., 2 story and basement, 136 x 202 ft., brick, plain foundation. $300,000. Rasmussan & Wayland, 252 West 46th St., New York City, archts.

Md., Baltimore—Warehouse—June 6, by Canton Co., South and Water Sts., 3 story, 80 x 200 ft., concrete and steel, plain foundation, 12th Ave. $150,000. Private plans.

Md., Cumberland—June 10, by Y.M.C.A., 3 story, 104 x 191 ft., concrete and brick, plain foundation. $225,000. Shattuck & Layer, 19 South La Salle St., Chicago, archts. Noted Feb. 28.

Md., Towson—Home—June 9, by O. E. Adams, archt., Equitable Bldg., Baltimore, 2 story and attic, 45 x 122 ft., brick, plain foundation, Chesapeake Ave., here, for Kelso Home, Charles St. and Mt. Vernon Pl. $150,000. Noted Mar. 13.

O., Kent—Physical Education—June 28, by W. Cluff, secy. Bd. Educ., 3 story and basement, 144 x 165 ft., rein.-con. and brick, $160,000. Roman & Ingleson, 1614 North High St., Columbus, archts. Noted May 15.

O., Portsmouth—Bank and Office—June 9, by Carmichael & Millspaugh, archts., 67 East Long St., Columbus, 8 story and basement, 30 x 175 ft., brick and concrete addition, here, for First Natl. Bank. $200,000. Noted Mar. 27.

Mich., Detroit—Garage—June 14, by Brown & Derrick, archts., 120 Madison Ave., 5 story, 125 x 145 ft., rein.-con., plain foundation, Beaubien and Congress Sts., for Detroit Garges, Inc., 320 Ford Bldg. $250,000.

Mich., Flint—Apartment—June 13, by Stahl, Kinsey & Hartwick, 628 McKerchey Bldg., Detroit, 5 story and basement, 124 x 140 ft., brick and steel, plain foundation, for Leinbach-Humphrey Co. $350.000.

Ill., Chicago—Apartment—S. H. Minchin, archt., 53 West Jackson St., taking bids 3 story and basement, 50 x 195 ft., fireproof, North Clark and Barry Sts. $225,000. Owner's name withheld.

Ill., Chicago—School—L. Streiche, archt., 660 Rush St., taking bids 2 story, 60 x 125 ft., fireproof, 43rd and Richmond Sts., for Five Holy Masters Catholic Church, 4327 South Richmond St. $150,000.

Ill., Decatur—Church—First Baptist Church, 124 East Prairie St., taking bids 2 story and basement, 90 x 125 ft., brick, stone and concrete, Prairie St. $150,000. S. A. Clausen, 701 Milliken Bldg., archt. Noted Feb. 7.

Ill., Evanston—Store and Apartment—R. F. France, archt., 155 North Clark St., Chicago, taking bids 3 story, 76 x 190 ft., fireproof, Chicago and Lee Sts., here, for E. Norman, c/o architect. $150,000.

Ill., Oak Park—Apartment—S. H. Minchin, archt., 53 West Jackson St., Chicago, taking bids 3 story and basement, 82 x 150 ft., fireproof, 142-144 Harrison St., here, for H. Lahnde, c/o architect. $150,000.

Wis., Kenosha—Clubhouse—June 9, by F. O. E. No. 1055, c/o C. Ryan, Public Service Bldg., 2 story and basement, 72 x 100 ft., concrete and brick addition, plain foundation. $150,000. C. O. Augustine, 1063 Howland Ave., archt. Noted May 22.

Wis., Kenosha—School—June 23 (extended date), by Bd. Educ., senior High School, 3 story and basement, 250 x 250 ft. brick, concrete and tile, plain foundation. $1,000,000. J. D. Chubb, 109 North Dearborn St., Chicago, Ill., archt. Noted May 29.

Minn., Hibbing—Recreation—July 15, by J. Gorman, pres. Village Council, 2 story, 200 x 280 ft., rein.-con., brick and steel memorial recreation building. concrete pile foundation. $400,000. Holstead & Sullivan, 407 Palladio Bldg., Duluth, archts. and engrs.

Minn., Minneapolis—School—June 9, by Bd. Educ., 3 story and basement addition, 5th Ave. N. and 4th St., $200,000; 2 story and basement, 41st St. and Chowne Ave., $150,000, both rein.-con., brick and tile. Bureau of Buildings, Bd. Educ., 245 9th Ave. N., archts. Noted Feb. 28.

Neb., Omaha—Hospital—June 15, by St. Catharines Roman Catholic Hospital, 4 story and basement, 42 x 187 ft. addition, 811 Forrest Ave. $200,000. L. A. Daly, 622 Peters Trust Bldg., archt. Noted May 15.

Tex., Dallas—Apartment—C. A. Davis, 4605 Ash Lane, taking bids 2 story, 86 x 92 ft., brick and tile, North Lancaster St. $150,000. C. A. Westbrook, 407 North Bishop St., archts.

Tex., Dallas—Office—J. A. Pitzinger, archt., Southwestern Life Bldg., taking bids 3 story, 50 x 100 ft., brick and concrete, Young St., for C. I. Connor, Republic Natl. Bank. $150,000.

Tex., Plainview—Church—First Baptist Church taking bids, brick and concrete church. $150,000. L. A. Kerr, Amarillo, archt.

Ore., Portland—Bank—A. E. Doyle, archt., Worcester Bldg., taking bids 3 story, 50 x 100 ft., rein.-con., marble, bronze and terra cotta, plain foundation, 6th and Stark Sts., for Citizens State Bank. $300,000.

Calif., Los Angeles—Club—Schultze & Weaver, archts., Pacific Mutual Bldg., taking bids 12 story and basement, approximately 100 x 150 ft., rein.-con. and brick, 6th and Figueroa Sts., for Jonathan Club, c/o architects. Noted Jan. 24.

Calif., Los Angeles—Warehouse—W. J. Saunders, archt., Laughlin Bldg., taking bids 3 story (ultimately 6 story) and basement, approximately 120 x 130 ft., rein.-con., 3rd and Alameda Sts., for Neptune Meter Co., 701 East 3rd St. Noted May 15.

Calif., Palo Alto—School—Trustees Palo Alto Grammer School Dist., taking bids 2 story, to contain 13 classrooms, rein.-con. $150,000. B. M. Clarke, 600 Embarcadero Rd., Palo Alto, archt., and Allison & Allison, Hibernian Bldg., Los Angeles, associated archts.

Calif., Woodland—High School—June 21, by Trustees Woodland High School Dist., 2 story, rein.-con. $250,000 bonds voted. W. H. Weeks, 369 Pine St., San Francisco, archt. Noted May 8.

BIDS RECEIVED

Md., Baltimore—High School—Mayor and City Council, City Hall, Gwynns Falls Junior High School, 3 story, rein.-con., and brick, plain foundation, Hilton St., from J. H. Miller, Inc., Eutaw and Franklin Sts., $917.000. Noted May 15.

D. C., Wash.—School—Dist. Comrs., constructing 8 room addition to Bernard J. Janney School No. 187, from G. E. Wyne, Home Life Bldg., (1) $172,300, Alt. 1 deduct $200., Alt. 4 add $2,700, Alt. 7 deduct $2,800. Noted May 22.

Calif., Long Beach—School—Long Beach City School Dist., general contract, 16 classroom, fireproof Whittier school unit, form W. G. Reed, Pacific Southwest Bldg., $119,400. Noted May 7.

Calif., Marysville—Hotel—Marysville Hotel Co., 5 story, rein.-con., 5th and E Sts., from I. C. Evans, 802 E St., $309,480. Noted May 1.

CONTRACTS AWARDED

Mass., Arlington—School—St. Agnes Roman Catholic Church, Bedford and Chestnut Sts., 2 story and basement, 143 x 192 ft., rein.-con., and brick, to J. F. Griffin Co., 15 Exchange St., Boston. Archts. est. $175,000.

Mass., Boston—Club—Harvard Club of Boston, 374 Commonwealth Ave., 4 story and basement, 50 x 90 ft., rein.-con., and brick addition to Squash Courts Clubhouse, 374 Commonwealth Ave., to W. A. Wentworth Co., 107 Pacific St., Cambridge. Archts. est. $200,000.

Mass., Boston—School—School House Dept., City Hall, rein.-con., brick and stone addition to Julia Ward Howe School, to C. & R. Constr. Co., 3 Tremont Row, $136,004. Noted Feb. 1, 1923.

Mass., Boston—School—School House Dept., City Hall, Charles Sumner Dist. School, to A. Piotti Co., 708 Dudley St., Dorchester, $233,980.

Mass., Charlestown—Garage—Merchants Terminal Co., Medford St., 1 story, 107 x 155 ft., Medford St., to J. Gascoigne & Co., 43 Tremont St., Boston, $150,000.

Mass., New Bedford—Bank and Office—First Natl. Bank, 6 story, 58 x 125 ft., rein.-con., brick and stone, Union and Pleasant Sts., to W. Coleson Co., 1 Hayward St., Cambridge. Archts. est. $500,000.

Mass., South Boston (Boston P. O.)—Warehouse—Standard Sanitary Mfg. Co., Ressemer Bldg., Pittsburgh, Pa., 6 story, 80 x 200 ft., brick, 365 C St., here. to Pultz Inc., 173 Milk St., Boston. Archts. est. $160,000. Noted May 15 under "Industrial Works."

Mass., Springfield—Apartment—L. & M. Kosofsky, 318 Main St., 4 story and basement, 172 x 182 ft., brick, to Meyer Constr. Co., 318 Main St., $400,000.

Mass., Wakefield—Apartment—Crystal Apartments, c/o Hutchins & French, archts., 11 Beacon S., Boston, 6 story, 80 x 120 ft., rein.-con., brick and stone, here, to Brennan & Henry Constr. Co., 77 Summer St., Boston. Archts. est. $150,000. Noted May 29.

Mass., West Springfield (Springfield P. O.)—Exhibition—Eastern States Exposition, Inc., 292 Washington St., Springfield, 1 story, 300 x 300 ft., brick and steel, here, to E. F. Carlson, 244 Main St., Springfield. $200,000.

R. I., Providence—Dormitory—La Salle Academy, 3 story, rein.-con., brick and steel, Smith S. and Academy Ave., to E. Turgeon, 86 Weybosset St. $400,000.

N. Y., Buffalo—Apartment—Uwing Corp., E. B. Dunigan, treas., 715 Main St., 10 story, rein.-con., brick and steel, Gates Circle, to H. L. Stevens Co., 30 North Michigan Ave., Chicago, Ill., $2,000,000.

N. Y., Brooklyn—Apartment—Lincoln Parkway Constr. Co., Brooklyn, c/o Shampan & Shampan, archts. and engrs., 189 Montague St., will build 6 story, 100 x 192 ft., brick and stone, plain foundation, Eastern Parkway, by day labor, $750,000.

N. Y., New York—College—College of St. Francis Xavier, 30 West 16th St., 3 story, 80 x 80 ft., brick and stone, 15th St. between 5th and 6th Aves., to W. L. Crow Constr. Co., 103 Park Ave., $200,000.

N. Y., New York—Garage—Five Hundred Seven West 166th St. Co., Inc., W. F. Cunningham, pres., 131 East 91st St., 5 story, brick, steel and stone, plain foundation, 503 West 166th St., to J. T. Brady Inc., 103 Park Ave. Archts. est. $175,000.

N. Y., New York—Market—E. J. O'Malley, comr. Pub. Market, Municipal Bldg., wholesale market and storage building, Exterior and East 152nd Sts., for Bronx Terminal Market, too Niewenhouse Co., Inc., 316 East 161st St., $2,841,986. Noted May 22.

N. Y., New York—Office—Frederick T. Ley & Co., 19 West 44th St., (owners and contractors), will build 20 story, 75 x 100 ft. brick, steel and stone, plain foundation, 30 East 40th St., by day labor. Ewing & Allen, 101 Park Ave., archts. and engrs.

N. Y., Ogdensburg—Bank—Bd. Directors Ogdensburg Bank, 42 x 100 ft., brick, 32 ft. high, Ford St., to E. K. Senno, Syracuse. Archts. est. $200,000. Noted Mar. 27.

Pa., Butler—Bank and Office—Butler Savings & Trust Co., 8 story, 60 x 120 ft., brick, steel and stone, to H. L. Weimer, Butler. Engrs. est. $350,000.

Pa., Mapletown—High School—Monongahela Twp. Bd. Educ., c/o L. M. Watson, Dunkard, general contract, 2 story and basement, to include auditorium and gymnasium, to J. Perrico, Greensburg. Archts. est. $150,000.

Pa., Mecersburg—Chapel—Mecersburg Academy, rein.-con. and brick chapel, to Jacobs & Young, Inc., 120 West 32nd St., New York City. Archts. est. $400,000.

Pa., Pittsburgh—Apartment—Milwood Realty Co., 233 Oliver Ave., general contract, 10 story and basement, 44 x 160 ft., Milwood St., to S. M. Siesel Co., 1st Natl. Bank. Archts. est. $500,000. Noted May 15.

Pa., Phila.—Office and Lodge—Great Council of Penna., 1523 Girard Ave., 3 story and basement, 40 x 150 ft., brick and steel, plain foundation, to F. G. Stewart, 1520 Locust St. Archts. est. $150,000.

Md., Baltimore—Exchange—Chesapeak & Potomac Telephone Co., 5 Light St., 4 story, 50 x 75 ft., brick and steel, plain foundation, 31st and Guilford Ave., to Frainie Bros. & Haigley, 19 West Franklin St., $150,000.

Md., Baltimore—Garage and Stable—Fairfield Farms Dairy, Inc., 539 North Exeter St., 3 story, 136 x 159 ft., rein.-con. and brick, Exeter and Front Sts., to C. L. Stockhausen Co., Gay and Water Sts., $165,000. Noted May 8.

Md., Baltimore—School—All Saints Catholic Church, c/o T. B. Kenny, pastor, 4408 Liberty Heights Ave., 2 story, 143 x 150 ft., brick, plain foundation, Liberty Heights and Clarendon Aves., to M. A. Long Co., 17 Guilford Ave., $150,000. Noted May 8.

Md., Baltimore—Store—Smith & May, archts., Calvert Bldg., 9 story and basement, 122 x 156 ft., brick and steel, plain foundation, Lexington and Howard Sts., to M. A. Long Co., N. Guilford Ave., for Bernheimer-Leader Stores, Lexington and Howard Sts. $1,000,000. Noted Apr. 10.

D. C., Wash.—Embassy—Italian Embassy, 1400 N. H. Ave., 3 story, brick and stone, plain foundation, to J. Stewart

Buildings (Continued)

& Co., 30 Church St., New York City. Archts. est. $500,000. Noted Jan. 31.

N. C., Canton — Mill — Champion Fibre Co., paper mill additions, to Aberthaw Constr. Co., 27 School St., Boston, Mass. Archts. est. $200,000.

Fla., Bellair—Hotel—F. Jonesburg, St. Petersburg, 150 room addition to Belleview Hotel, here, to F. J. Mason Constr. Co., St. Petersburg, cost plus. Noted May 8.

Tenn., Nashville — Demonstration — Peabody College for Teachers general contract 3 story, rein.-con., brick and stone addition, on campus, to Hageman-Harris & Co., Nashville, $150,000. Noted May 15.

O., Cleveland — Apartment — Ninetieth-Euclid Co., c/o W. S. Ferguson Co., archts., 1900 Euclid Ave., 4 story, 85 x 112 ft., brick, Euclid Ave. near East 90th St., to M. B. Parker Constr. Co., 1836 Euclid Ave. Archts. est. $250,000. Noted May 1.

O., Cleveland—Recreation—Calvary Evangelical Church, C. A. Hirschman, pastor, 2763 Woodhill Rd., 2 story and basement, 101 x 110 ft., brick, 9725 Shaker Blvd., to L. Dantel & Son, 5710 Hough Ave. Engrs. est. $150,000.

O., Columbus — Apartment — Broadwyn Apartment Co., 8 story and basement, 68 x 120 ft., and 1 story, 35 x 40 ft., concrete and brick, East Broad St., to Ferro Concrete Constr. Co., 3rd and Elm Sts., Cincinnati. Archts. est. $400,000. Noted Apr. 3.

O., Columbus—Office—Dispatch Printing Co., Gay and High Sts., 4 story and basement, 62 x 187 ft., rein.-con., brick, stone and steel, South 3rd St., general contract, to R. H. Evans Co., 8 East Long St., $238,000. Noted May 1.

O., East Youngstown—High School—Bd. Educ., general contract for East Youngstown High School, to Heller Bros. Co., Thurman St. and Rayen Ave., Youngstown, $269,132. Noted Feb. 29.

Mich., Northville — Dormitories — Bd. Supervs. Wayne Co., County Bldg., Detroit, (1st unit) sixteen 2 story, 47 x 86 ft., rein.-con., steel and brick, plain foundations, Northville-Plymouth Rd., to W. E. Wood Co., 1805 Ford Bldg., Detroit, $853,856.

Ill., Chicago — Apartment — Mansfield Building Corp., 6 North Clark St., 4 story, 100 x 123 ft., fireproof, 6428-36 Cottage Grove St., to Anderson & Nelson, 2432 Irving Park Blvd. Archts. est. $325,000.

Ill., Chicago — Apartment — E. Putishauser, c/o J. J. Jensen, archt., 4815 North Lawndale St., 1 story, 30 x 170 ft., fireproof, 613-15 West Madison St., to McHugh Constr. Co., 139 North Clark St. Archts. est. $150,000.

Ill., Chicago—Apartment—B. D. Ritholz, c/o Loewenberg & Loewenberg, archts., 111 West Monroe St., 3 story, 110 x 184 ft., fireproof, 520-28 Surf St., to E. Borg, 1330 Eddy St. Archts. est. $275,000.

Ill., Chicago — Apartment — H. Zizook, 6139 Eberhart Ave., 3 story, 100 x 177 ft., fireproof, 5124-32 Kimbark Ave., to Rune & Son, 6744 Ridgeland St. Archts. est. $200,000.

Ill., Chicago—School—Bd. Educ., 650 South Clark St., 3 story, 109 x 109 ft., fireproof, 2725-27 Shields Ave., to J. S. Connelly, 133 West Washington St. Archts. est. $200,000.

Ill., Fairmount — Clubhouse — See "Nnclassified."

Ill., Rockford—Bank and Office—Rockford Bank & Trust Co., general contract, 11 story and basement, 24 x 87 ft. side addition, and 4 story, 87 x 125 ft. top addition, Main St., to Security Building Co., Haskell Ave.

Wis., Sheboygan—Store and Office—H. C. Prange Co., 731 North 8th St., 2 story, 85 x 100 ft., rein.-con., brick and steel, 8th St., to L. F. Meier, 1202 North 16th St. Archts. est. $150,000. Noted Apr. 17.

Minn., Plainview—School—Bd. Educ., 2 story and basement, rein.-con., brick and tile, general contract to J. B. Nelson, Mankato, $115,847. Noted May 8.

Neb., Plattsmouth—Infirmary—Nebraska Masonic Home, c/o J. R. Webster, 1540 Natl. Bank Bldg., Omaha, general contract, 4 story and basement, 43 x 110 ft. brick and stone, to Wind & Hyde, 450 Brand Bldg., Omaha, $92,000. Noted May 15.

Mo., St. Louis—Art Gallery—Local Syndicate, c/o J. Darst Realty Co., Wainwright Bldg., 2 story and basement, rein.-con., brick, stone and terra cotta, to J. G. Hercules, Jr., 5751 Chamberlain Ave. Archts. est. $160,000.

Mo., St. Louis—Loft and Stores—Local Syndicate, c/o I. T. Cook & Co., Arcade Bldg., 4 story and basement, 109 x 120 ft., brick, concrete and steel, Pine and 22nd Sts., to G. Sokol, 7069 Pershing Ave. Archts. est. $250,000.

Ore., Portland—Warehouse, etc.—Meier & Frank, Meier & Frank Bldg., 4 story, 113 x 200 ft., warehouse, automobile terminal and repair shop, rein.-con., plain foundation, to Stebinger Bros., Worcester Bldg., $165,000.

Calif., Berkeley—Church—Bd. Missions of Methodist Episcopal Church, Lambuth Bldg., Nashville, Tenn., 3 story, Class A rein.-con., here, to Lawton & Vezey, 357 12th St., Oakland, approximately $200,000. Noted May 8.

Calif., Glendale — Office, Store and Theatre—Glendale Theatre Co., Brand Blvd. and Wilson St., Class A rein.-con., Brand Blvd., to Kinne & Westerhouse, H. W. Hellman Bldg., Los Angeles, $215,000.

Calif., Los Angeles — Cafeteria — Boos Bros., 440 South Hill St., will build 3 story and basement, approximately 60 x 120 ft., brick, by day labor.

Calif., Los Angeles—Store and Office—C. E. Grosse, 1133 Buena Vista St., South Pasadena (branch of Pasadena), 2 story and basement, 115 x 150 ft., brick and steel, 7th St., here, to Stanton, Reed & Hibbard, Metropolitan Bldg., $155,000.

Calif., Los Angeles—Store and Office—Sun Realty Co., 1116 South Los Angeles St., concrete and brick work for 12 story and basement, Flower and 7th Sts., to C. J. Kubach Co., Merchants Natl. Bank Bldg., $263,300. Noted Apr. 10.

Calif., San Bernardino—Hotel—Antlers Hotel Co., c/o contractors, 6 story and basement, approximately 150 x 150 ft., rein.-con. and hollow tile, here, to Williams Constr. Co., Marsh-Strong Bldg., Los Angeles, $285,500.

Federal Government Work

PROPOSED WORK

Mass., Boston—Dredging—U. S. Government, plans dredging in Nantucket Harbor channel from head of harbor to ocean; Edgetown Harbor dredging bar and shoal on west side of Chappaquiddick Point, Dorchester Bay and Neponset River, channel 30 ft. deep to Squantum, Boston Harbor, to eliminate bend east of Tunis Ledge at entrance of Broad Sound Channel.

Md., Annapolis—Swimming Pool—Spec. 4972—Bureau Yards & Docks, Navy Dept., Wash., D. C., rejected bids swimming pool, scum gutter at Naval Academy here. Noted May 29.

D. C., Bellevue—Pier—Spec. 4983—Bureau Yards & Docks, Navy Dept., Wash., D. C., plans repairs to timber pier, here.

D. C., Wash. — Towers — Spec. 4988 — Bureau Yards & Docks, Navy Dept., plans modifying radio towers.

Ky., Owensboro—Dwellings—U. S. Engineer, P. O. Box 72, Louisville, takes bids about July 1, constructing 2 lockkeepers dwellings at Dam 46, Ohio River.

Ill., Great Lakes—Boilers—Spec. 4982—Bureau Yards & Docks, Navy Dept., Wash., D. C., plans resetting boilers in Naval Hospital, here.

Ill., Olmstead—Lock — U. S. Engineer, P. O. Box 72, Louisville, Ky., plans constructing lock 53 in Ohio River near here.

Calif., San Francisco—Supply Depot—Spec. 5000—Bureau Yards & Docks, Navy Dept., Wash., D. C., plans marine corps supply depot, here.

Calif., San Francisco — Grading — Spec. 4999—Bureau Yards & Docks, Navy Dept., Wash., D. C., plans grading site, etc., for marine corps supply depot, here.

Calif., Tiberson — Coaling Plant — Spec. 4989—Bureau Yards & Docks, Navy Dept., Wash., D. C., plans coaling plant, repairs, etc., here.

P. I., Cavite—Coaling Plant, etc.—Spec. 4990—Bureau Yards & Docks, Navy Dept., Wash., D. C., plans coaling plant, repairs, etc., here.

BIDS DESIRED

Me., Bar Harbor—Compass Station—Spec. 4966—June 18, by Bureau Yards & Docks, Navy Dept., Wash., D. C., compass station, here.

N. Y., Cohoes—Post Office—June 30, by Treas. Dept. at office Supervising Archt., Wash., D. C., approximately 66 x 72 ft. post office, here; adv. E. N.-R. June 5.

N. Y., New York—Dredging—June 16, by U. S. Engineer Office, War Dept., Wash., D. C., dredging 12,000 cu.yd. trap rock and 10,000 cu.yd. soft material in New York and New Jersey Channels near Shooters Island.

Pa., Altoona—Retaining Wall—June 17, by Treas. Dept. at officee Superv. Architect, Wash., D. C., retaining wall, 42 ft. long, at U. S. Post Office, here.

Pa., Hog Island—Compass Station—Spec. 4976—June 11, by Bureau Yards & Docks, Navy Dept., Wash., D. C., repairs to compass station quarters and wharf, here. Noted May 22.

Pa., Phila.—Dredging June 23, by U. S Engineer Office, War Dept., Wash., D. C., dredging 1,500,000 cu.yd. in Delaware River at Horseshoe Bend near here.

Pa., Scranton—Post Office—June [illegible], by Treas. Dept. at office Superv. Architect, Wash., D. C., 1 story, 23 x 30 ft. addition to parcel post annex at U. S. Post Office, here.

D. C., Wash.—Road and Gutters—Spec. 4986—June 18, by Bureau Yards & Docks, Navy Dept., Wash., D. C., repairs to roads and gutters.

Va., Quantico—Bridge—Spec. 4987—June 23, by Bureau Yards & Docks, Navy Dept., Wash., D. C., resurfacing bridge at Marine Flying Field, here.

W. Va., Huntington—Steel Boats—June 20, by U. S. Engineer Office, War Dept., Wash., D. C., furnishing two 60 x 20 x 3½ ft. steel maneuver boats.

Tenn., Nashville—Steamboat Hull—July 7, by U. S. Engineer Office, Nashville, furnishing one steel steamboat hull; adv. E. N.-R. June 5.

Mo., Lexington—Current Retards—June 26, by U. S. Engineer Office, War Dept., Wash., D. C., 600 lin.ft. current retards in Missouri River, near here.

Tex., Galveston—Compass Station—Spec. 4974—June 18, by Bureau Yards & Docks, Navy Dept., Wash., D. C., radio compass station, quarters and radio compass building, here. Noted May 8.

Wash., Destruction Island—Compass Station—Spec. 3954—July 9, by Bureau Yards & Docks, Navy Dept., Wash., D. C., radio compass station masts, and services, etc., here.

Calif., Point St. George—Radio Building—Spec. 4952—July 9, by Bureau Yards & Docks, Navy Dept., Wash., D. C., radio building and accessories, here.

H. T., Pearl Harbor—Storehouse, Depot. etc.—Spec. 4975—July 30, by Bureau Yards & Docks, Navy Dept., Wash., D. C., storehouse, ammunition depot and filling house, etc., here. Noted May 22.

BIDS RECEIVED

Mass., Chelsea—Porches and Walks—Spec. 4965—Bureau Yards & Docks, Navy Dept., Wash., D. C., inclosed porches and concrete walks at Naval Hospital, here, from F. J. Lowe & Co., 80 Boylston St., Boston, (1) $8,500 (2) $8,300.

D. C., Wash.—Boiler House, etc.—Constructing Quarters, Wash., D. C., remodeling boiler house and boiler installation at barracks from Potomac Eng. Co., Wash., D. C., $19,813.

Minn., Mille Lacs—School, etc.—Comrs. Indian Affairs, Wash., D. C., frame schoolhouse, here, from Bock Building Co., Milaka, $4,330 (90 days). Noted May 15.

Nevada—Roads—C. H. Sweetser, dist. engr. U. S. Bureau Pub. Rds. 9, Main St., San Francisco, Calif., grading 11.32 mi. Meadow Creek Sect. in Humboldt Natl. Forest, (a) contractor furnishes explosives, (b) Government furnishes explosives, from H. E. Cornell, 1403 Warm Springs Ave., Boise, Idaho, (a) $87,501 (b) $84,375, engrs. est. (a) $79,720 (b) $77,220. Noted Apr. 17.

CONTRACTS AWARDED

N. J., Woodbury — Post Office — Treas. Dept. at office Superv. Architect Wash., D. C., post office building, here to E. Zimberli, State College, $46,400. Noted May 22.

Md., Annapolis — Tube Building — Spec. 4973—Bureau Yards & Docks, Navy Dept., Wash., D. C., tube transmitter building, to W. L. Morrison Constr. Co., 613 15th St., N. W., Wash., D. C., $12,840 (60 days). Noted May 22.

Ky., Louisville—Coffer Rods—U. S. Engineer, P. O. Box 72, furnishing 6,000 ft. ⅞ in. steel coffer rods 22 ft. long, for Dams 50 and 52, Ohio River, to Pidgeon Thomas Iron Co., 94 North 2nd St., Memphis, Tenn., $2.63 per cwt. Noted May 29.

Ky., Owensboro—Buckets—U. S. Engineer, P. O. Box 72, Louisville, furnishing one ⅞ and one 1 yd. clamshell buckets for Dam 46, Ohio River, to Blaw Knox Co., P. O. Box 915, Pittsburgh, Pa., $1,194. Noted May 22.

Ill., Brookport—Lock—U. S. Engineer, P. O. Box 72, Louisville, Ky., will build lock at Dam 52, Ohio River, near here, by day labor. $1,500,000.

Ill., Chicago — Cement — U. S. Engineer Office, Chicago, furnishing 8,000 sacks cement, to Universal Portland Cement Co., 210 South Lasalle St., Chicago, $5,000.

Kan., Kansas City—Revetment—U. S. Engineer, Kansas City, Mo., 1,500 lin.ft. revetment work between Goose Island and Jersey Creek on Missouri River, near here, to Woods Bros. Constr. Co., Lincoln, Neb., mattress anchor plates $0.60 per lin.ft., willow brush $10.50 per cord, cribbing poles

Federal Government Work (Continued)

$11.50 per cord, stone on mattress $3.40 per cu.yd., grading bank $0.30 per cu.yd., stone in paving $4.75 per cu.yd., spalls on mattress and paving $4.25 per cu.yd. Noted Apr. 24.

Mo., **St. Louis—Steel Pipe Line—U. S.** Engineer, 428 Custom House 28 sections (504 ft.) steel pipe line, to Hamler Boiler & Tank Co., 66th Pl. and 60th Ave., Chicago, Ill., $4,928.

Unclassified

PROPOSED WORK

Playground—Mattapan (Boston P. O.), Mass.—City of Boston plans playground, Collins Field, Almont St., here. $32,500. Engineer, c/o Park Dept.

Playground—South Boston (Boston P. O.), **Mass.**—Park Dept., 33 Beacon St., Boston, plans public playground, section bounded by Bolton, D and West Third Sts., here. $65,250. J. B. Shea, chn.

Transmission Lines, Substations, etc.—New York—Northern New York Utilities Co Inc., 58 Public Sq., Watertown, plans 35 mi. transmission line from Altmar, Oswego Co. to Black River near Watertown, and substations on Black River. $1,400,000.

Power Development—Watertown, N. Y.—Northern New York Utilities Inc., 58 Public Sq., plans hydro-electric development at Sewalls Island on Black River, here, 2,000 to 2,500 hp. To exceed $250,000.

Stadium — Macon, Ga. — Mercer College having plans prepared by Freeland, Roberts Co., consult. and designing engr., Independent Life Bldg., Nashville, Tenn., concrete stadium, 15,000 seating capacity, for athletic field. $100,000. Noted Nov. 29.

Transmission Line — Wisconsin — Wood Co. Electric Light and Power Co., Wisconsin Rapids, plans transmission line and distribution system from Wisconsin Rapids to Vesper. Engineer not selected.

Ornamental Street Lighting—Merrill, Wis.—H. R. Allen, city clk. soon takes bids for concrete posts, etc., on 8 down town streets. $25,000.

Gas Mains—Omaha, Neb.—See "Waterworks."

Fish Hatchery—Tahlequah, Okla.—State plans new fish hatchery on Illinois River, near here, 16,000 cu.yd. earth and 1,500 cu.yd. rock excav., 100 cu.yd. rein.-con., 250 cu.yd. mass concrete, 2,000 lin.ft. 12 in. wood pipe. $40,000. J. M. Page, highway engr.

Power Development — Portland, Ore. — Portland Electric Power Co., Electric Bldg., issued $50,000,000 bonds for extensions and additions during next 6 years.

Open Air Theatre, etc.—Alhambra, Calif.—City plans open air theatre and art center, incl. 30 x 50 ft. stage, 50 x 250 ft. proscenium with 30 ft. lagoon, stadium to seat from 4,000 to 5,000.

Park Improvements—Los Angeles, Calif.—Los Angeles Co. plans election to vote on $460,000 bonds, park improvements in Municipal Impvt. Dist. 25.

Street Lighting System—Los Angeles, Calif.—Had plans prepared street lighting system, 157 pressed steel standards, Whittier Blvd.; 158 c.i. standards, Santa Monica Blvd.; 205 concrete standards, Central Ave. To exceed $25,000.

Rock and Sand Bunkers—Sacramento, Calif.—Pratt Rock & Gravel Co., Hearst Bldg., San Francisco, has plans prepared rock and sand bunkers, capacity 1,500 ton, concrete pits 21 ft. deep under railroad tracks, etc., here. $35,000.

Street Lighting System—San Francisco, Calif.—City and San Francisco Co. making plans street lighting system in Mission St. between 4th and 16th Sts., ornamental oriental system in Chinatown, Grant Ave. between Bush St. and Columbus Ave.; extending Path of Gold, Mason St. between Market and Geary Sts.; Sutter St. from Market St. to Van Ness Ave., and in Van Ness Ave. to Market and thence out Market to Valencia Sts. Each to exceed $25,000. M. M. O'Shaughnessy, city engr.

Electrification of Railways — British Columbia—Canadian Pacific Ry., Windsor St., Montreal, Que., plans electrification of main line from Vancouver to Calgary. S. E. Jenkins & Co. Ltd., 837 Hastings St. W., Vancouver, consult. engrs.

Grain Elevator—Vancouver, B. C.—Vancouver Harbor Comrs., 525 Seymour St., calling for competitive designs for addition to Elevator No. 1, and storage annex to Elevator No. 3, 1,600,000 bu. capacity. $600,000. W. G. Swan, c/o owner, engr.

Stadium—Toronto, Ont.—University of Toronto, Queens Park, having plans prepared rein.-con. and steel stadium. $200,000. Harkness, Landon & Hertzberg, Confederation Life Bldg., engrs.

BIDS DESIRED

Plumbing System, etc.—New York, N. Y.—June 10, by Bd. Educ. at office W. H. Gompert, supt. school buildings, Flatbush Ave. extension and Concord St., Brooklyn, plumbing and drainage system in James Monroe High School, Boynton Ave. from East 172nd to 173rd Sts., Bronx Boro, here.

Ball Park — Phila., Pa. — Amer. League Baseball Club of Phila., 21st and Lehigh Sts., will double deck right and left pavilions and north bleachers, steel, Shibe Park. Work will be done by separate contracts under supervision of P. M. Sax, archt. and engr., Penfield Bldg. $350,000. Noted May 22.

Town Site—Norfolk, Va.—W. B. Shafer, Jr., c/o Pennsytown Corp., 215 Arcade Bldg., taking bids 5 mi. concrete streets, aeroplane field, movie studio, fifty $5,000 homes, etc., near here; adv. E. N.-R. June 5.

Street Lighting System—Redondo Beach, Calif.—June 16, by W. J. Baalen, city clk., 343 c.i. ornamental standards in Esplanade, Catalina, Pacific Aves., etc. To exceed $25,000.

Removing Headblock, etc.—Ottawa, Ont.—June 13, by N. Desjardins, Acting Secy., Dept. Pub. Wks., removing headblock and repairs to the lake end of the north pier at Burlington Channel, Wentworth Co.

BIDS RECEIVED

Drip Pans — Brooklyn, N. Y. — Dept. Plants and Structures, Municipal Bldg., New York City, drip pans under Williamsburgh Bridge, from Vulcan Rail & Constr. Co., 35 Meserole Ave., Brooklyn, $42,995.

Heating and Plumbing—Brooklyn, N. Y.—W. H. Gompert, supt. school buildings, Flatbush Ave. extension and Concord St., heating in P. S. 80, from N. P. Lorenzo, 430 Pearl St., $46,200, plumbing from J. H. D. Goldblatt, 345 Madison Ave., New York, $90,000. Noted May 15.

Heating and Ventilating Apparatus — Brooklyn, N. Y. — W. H. Gompert, supt. school buildings, Flatbush Ave. extension and Concord St., heating and ventilating apparatus in addition to Erasmus High School, Bedford Ave., from Austin Eng. Co., 121 West 42nd St., New York, $152,475. Noted May 22.

Waterproofing Track Floors—Brooklyn, N. Y.—Transit Comn., 49 Lafayette St., New York, reconstructing waterproofing track floors at stations of Route 39, Sect. 2, Agreement "CZ," from Charles Meads & Co., 217 West 14th St., New York, $33,210. Noted May 22.

Ferryboats — New York, N. Y. — Dept. Plants & Structures Municipal Bldg., 6 steel screw ferryboats, from New York Shipbuilding Corp., 50 Broad St., $1,323,500.

Heating and Ventilating Apparatus, etc.—New York, N. Y.—W. H. Gompert, supt. school buildings, Flatbush Ave. extension and Concord St., Brooklyn, heating and ventilating apparatus in P. S. 36 from W. J. Olvaney, Inc., 100 Charles St., $48,913; in P. S. 201, P. S. 33 and P. S. 197, from D. J. Rice, 405 Lexington Ave., $97,832, $97,733 and $97,694 respectively. Noted May 15.

Heating and Ventilating—Baltimore, Md.—Mayor and City Council, City Hall, heating and ventilating in Gwynns Falls Park Junior High School, Hilton St., from Enterprise Steam and Hot Water Heating Co., 619 West Franklin St., $128,870. Noted May 22.

CONTRACTS AWARDED

Transmission Line — Illinois — Illinois Power & Light Corp., Illinois Merchants Bank Bldg., Chicago, will construct 66,000 volt high tension transmission line from Keokuk, Ia., to Galesburg and from Galesburg to Galva; also 33,000 volt transmission line and substation in Galesburg, by day labor. R. W. Carley, dist. supt.

Grand Stand, etc. — Fairmount, Ill. — Fairmount Jockey Club, c/o P. Cohn, East St. Louis, general contract and engineering for 72 x 1,008 ft. grand stand, 75 ft. high, stables for 1,000 horses, 2 story, 75 x 150 ft. stucco and timber club house, to W. H. Smith Co., Pontiac Bldg., St. Louis, Mo. Engrs. est. $375,000. Noted May 29 under "Race Track."

Transmission Line—Wisconsin—Wisconsin Pub. Serv. Corp., 559 Marshall St., Milwaukee, will build 58 mi. high voltage transmission line from Green Bay to Oshkosh. by day labor. $300,000. Mead & Seastone, Journal Bldg., Madison, engrs.

Lighting System — Platteville, Wis. — Ornamental street lighting system in main sections of business district, to Donovan Constr. Co., 417 Commerce Bldg., St. Paul, Minn. Engrs. est. $25,000. Noted Apr. 17

Coal Dock—Superior, Wis.—Reeves Coal & Dock Co., 100 North 7th St., Minneapolis, 476 x 1,800 ft., coal dock, steel and concrete, to Fegles Constr. Co., 706 1st Ave., N., Minneapolis, Minn., about $750,000.

Transmission Line—Oklahoma—Southwest Light & Power Co., Continental Bldg., Oklahoma City, will build 66,000 volt transmission line from Frederick to Manitau, incl. step down transformer station, by day labor. $35,000. E. R. Ernsberger, Continental Bldg., Oklahoma City, engr.

Wharf and Sheds—Corpus Christi, Tex.—City and Nueces Co. Navigation Dist. 1, large wharf and sheds, to Sumner Sollit Co., Natl. Bank Commerce Bldg., San Antonio, $745,070. Noted May 29.

Street Lighting System—Alhambra, Calif.—To W. A. McNally, 517 South Bway., Pasadena, street lighting system Main St., approximately $107,350; Garfield St., approximately $12,600. Noted Feb. 7.

Street Lighting System—Corona, Calif.—Street lighting system, to H. M. Rouse, San Bernardino, approximately $37,450. Noted May 15.

Street Lighting System—Los Angeles, Calif.—Ornamental street lighting system, North Bway. between Pasadena and Lincoln Park Aves., to Newbery Electric Co., 724 South Olive St., $53,817.

Gas Mains — Montreal, Que. — Montreal Light, Heat & Power Co., Craig St. W., will build 29,043 ft. 4 in. c.i. gas mains in 33 streets and avenues $66,039, 12,237 ft. 6 in. c.i. gas mains in 10 streets and avenues $35,573, and 4,955 ft. 8 in. c.i. gas mains in 3 streets $16,803, by day labor. E. S. Stanton, supt. gas distribution. Noted May 29.

Grain Elevators, etc.—Vernon, Calif.—Globe Grain & Milling Co., 907 East 3rd St., Los Angeles, 21 elevators, 21 ft. high and warehouse, all rein.-con., here, to R. Hess, 51st and Alameda Sts., Vernon, $100,000.

Power Development — Island Falls via Cochrane, Ont.—See "Industrial Works."

Car Barns—Ottawa, Ont.—Ottawa Electric Ry. Co., Bank St., 1 story, 200 x 300 ft., brick and steel car barn, plain foundation, Elm St., to J. Sutherland, 510 Rideau St., about $200,000.

Material and Equipment

PROPOSED WORK

Cable—Minneapolis, Minn.—F. S. Gram, city purch. agt., rejected bids for 42,292 lin.ft. cable for electric signal system for Fire Dept. Will readvertise. Noted May 1 under "Unclassified."

BIDS DESIRED

Steel Castings, Cement etc.—New York, N. Y.—June 12, by J. Miller, pres. Manhattan Boro, Municipal Bldg., steel castings to Corporation Yards, 500,000 gal. asphaltic cement, and 8,000 cu.yd. ¾ in. binder stone.

Crane—Pittsburgh, Pa.—Amer. Sheet & Tin Plate Co., Frick Bldg., taking bids 50 ton crane, 10 ton auxiliary, 80 ft. span. M. S. Dennis, purch. agt.

Locomotive Cranes, etc.—Pittsburgh, Pa.—Koppers Co., Union Trust Bldg., taking bids locomotive cranes, shovels and buckets.

Road Oil—Louisville, Ky.—June 7, by Fiscal Court Jefferson Co., 350,000 gal. more or less medium coal tar road oil and 40,000 gal. cold patch oil. To exceed $25,000. M. Drane, Louisville Trust Bldg., co. surv.

Concrete Mixer—Milwaukee, Wis.—Wenzel & Henoch Co., 498 27th St., taking bids 1 bag concrete mixer.

Posts and Brackets—Milwaukee, Wis.—June 11, by Central Bd. Purchases, City Hall, 628 concrete posts and brackets for street lighting system.

Concrete sand, etc.—Minneapolis, Minn.—June 10, by F. S. Gram, city purch. agt., 3,600 cu.yd. concrete sand, 6,500 cu.yd. crushed rock or gravel.

Street Flushers and Sprinklers — New Ulm, Minn.—June 12, 1 to 2 motor street flushers and sprinklers with 1,000 gal. tank; 1 to 6 horse-drawn type sprinklers with 600 gal. steel tank. W. P. Backer, city clk.

Sand—Modesto, Calif.—Modesto Irrigation Dist., C. S. Abbott, secy., in market for 1,000 cu.yd. river sand.

Street Sweeper — Whittier, Calif. — City, P. Gilmore, clk., in market for motor street sweeper.

Cement—Montreal, Que.—L. O. Pion, DeFleurient St., city purch. agt., in market for 4,600 tons cement for asphalt paving.

Road Oil—Montreal, Que.—June 10 by L. O. Pion, Purchasing Agent, 190,000 gal. road oil.

BIDS RECEIVED

Broken Stone — Brooklyn, N. Y. — E. Riegelmann, boro. pres., Boro. Hall, 4,000 cu.yd. broken stone, etc., from B. Turecamo Contg. Co., 8706 Bay 12th St., $15,618. Noted May 22.

SEARCHLIGHT SECTION

OFFICIAL PROPOSALS

Copy: Official Proposals reaching our New York Office by 10 A. M., Tuesday can usually be printed in the issue out Thursday.

Rate:
40 Cents a Line an Insertion

Plans and Specifications for inspection by distant bidders may be filed at any of the Engineering News-Record offices without charge.

THESE ARE OFFICIAL NOTICES THAT BIDS ARE WANTED FROM BIDDERS EVERYWHERE

E.N.-R.

OFFICIAL PROPOSALS

Bids: June 19.

Proposal for Building an Additional Water Supply

Lewisburg, Tenn.

Sealed proposals for furnishing material and constructing an additional water supply for the Town of Lewisburg, Tennessee, will be received by the City Commissioners at the City Hall until 3 o'clock P. M. Thursday, June 19th, 1924.

The work will consist of an impounding dam and pump house, a ten inch force main, a coagulating basin, two 500,000 gallons gravity filters and 150,000 gallons concrete clear well.

Each proposal must be accompanied by a certified check payable to the Town of Lewisburg, Tennessee, to an amount equal to five per cent (5%) of the bid, as a guarantee that the contract will be entered into if awarded. A bond of one hundred per cent (100%) of the contract price will be required. In addition to this bond, the statutory bond providing for the protection of laborers and materialmen, who deal direct with the contractor, will be required.

This bond will be for one-half of the contract price on all contracts of $2,000.00 or under; one half of the first $2,000.00 and thirty-five per cent (35%) for all over the amount on all contracts between $2,000.00 and $5,000.00; and one-half of the first $2,000.00, thirty-five per cent (35%) on the next three thousand ($3,000.00) and twenty-five per cent (25%) on the balance of all contract over $5,000.00. The condition of this bond being to pay for all the material and labor used in the fulfillment of the contract.

Contracts will be awarded to the lowest bidder. Payments will be made on monthly estimates.

Plans and specifications are on file in the office of the City Clerk at Lewisburg, Tennessee, and with Paul H. Norcross, Consulting Engineer, 1404 Candler Building, Atlanta, Ga.

Bidders may obtain copies from the Engineer by enclosing a certified check for Twenty-five ($25.00) Dollars, payable to the Town of Lewisburg, Tennessee. If blue prints are desired, they may be had at the cost of printing. If specifications and blue prints are returned within thirty days after opening bids, the check for $25.00 will be returned.

J. N. McCORD,
J. C. ADAMS,
S. K. WALKER,
City Commissioners.

PAUL H. NORCROSS,
Consulting Engineer,
1404 Candler Building,
Atlanta, Georgia.

Bids: June 17.

Street Paving

Shenandoah, Pa.

Bids will be received by the Borough of Shenandoah for repairing, sheet asphalt streets, with 1 inch binder and 2 inch wearing surface, approximately 800 square yards, bids to be per square yard to include all labor and material necessary.

All bids to be in the hands of the Chairman of Street Committee at 12 o'clock noon June 17, 1924.

The right is reserved to reject any or al bids.

T. R. EDWARDS,
Chairman of Street Committee,
111 N. Jardin St., Shenandoah, Pa.

OFFICIAL PROPOSALS

Bids: June 18.

Completion of Anchorages

DELAWARE RIVER BRIDGE
CONTRACT 15

Philadelphia, Pa.

Sealed proposals will be received by the Delaware River Bridge Joint Commission at Room 806 Widener Building, Philadelphia, Pa., until 1:30 o'clock p.m. Eastern Standard Time, June 18, 1924 when they will be publicly opened and read, for the completion of the anchorages of the bridge over the Delaware River between the City of Philadelphia, Pa., and the City of Camden, New Jersey.

The work will include the construction to solid rock foundation of eight cylindrical piers to support the masonry towers of the anchorages, the construction of concrete masonry, granite facing, steel roadway supports and interior finish and equipment in both anchorages. Concrete masonry forming the first section or core of each anchorage has been constructed under previous contracts. The contract time for the entire work is twenty three months.

A lump sum bid is asked for the entire work together with unit prices to cover additions or deductions in certain items from the quantities shown on the drawings.

Copies of the Contract and Contract drawings may be obtained at the office of the Joint Commission upon deposit of twenty-five dollars, which deposit will be returned upon receipt of bid or the return in good condition of the contract books.

Each proposal must be accompanied by a certified check for the sum of One Hundred Thousand Dollars ($100,000.) payable to the Delaware River Bridge Joint Commission and the Surety's consent must be shown. The bidder or bidders to whom the contracts are awarded will be required to give bond, in the sum of 50 per cent of the amount of the contract.

The right is reserved to reject any or all bids.

GIFFORD PINCHOT,
Chairman.
JOSEPH K. COSTELLO,
Secretary.
DELAWARE RIVER BRIDGE JOINT COMMISSION

Bids: June 16 and 17.

State Highway Work

Harrisburg, Pa.

Pennsylvania Department of Highways, Harrisburg, Pa. Bids will be received June 16, 1924, for the construction of sixteen projects, totaling forty-four miles; also June 17, 1924, for the construction of fifteen projects totaling fifty-four miles, construction to be either bituminous surface on a concrete base or reinforced concrete. Projects situated in the following counties:

Allegheny, Beaver, Berks, Bradford, Bucks, Carbon, Chester, Clarion, Clearfield, Columbia, Elk, Fayette, Forest, Jefferson, Lebanon, Lehigh, Luzerne, Lycoming, Monroe, Montgomery, Schuylkill, Somerset, Tioga, Warren, Washington.

Also for the construction of reinforced concrete bridge situated in Adams County. Full particulars upon application to Paul D. Wright, Secretary of Highways, Harrisburg, Pennsylvania.

OFFICIAL PROPOSALS

Bids: June 11.

Excavating Channel

Albany, N. Y.

Sealed proposals for excavating a channel in the Shinnecock-Peconic Canal and Peconic Bay, County of Suffolk, Long Island, N. Y., will be received by the Salt Water Bays Commission, at the office of the State Engineer, Telephone Building, Albany, N. Y., until 12 o'clock noon, Wednesday, June 11, 1924, when they will be publicly opened and read. Proposals shall be endorsed on the envelope "Proposals for excavating channel in Long Island Bays," and addressed to the Salt Water Bays Commission, care of State Engineer, Telephone Building, Albany, N. Y., and shall be accompanied by a deposit consisting of a certified check drawn upon some legally incorporated bank in this State and made payable at sight to the Salt Water Bays Commission, or money, equal to five per cent (5%) of the amount of the proposal. The contractors to whom the award is made will be required to furnish, for the faithful performance of the contract, a surety company bond in the sum of fifty per cent (50%) and an additional bond, known as the labor bond, in the sum of ten per cent (10%) of the amount of the contract, within ten (10) days after official notice of award of contract. The right is reserved to reject any and all bids. Specifications and estimates may be obtained, and plans may be examined at the office of the State Engineer, Albany, N. Y., and Pier 6, East River, New York City. Blueprint of plans, which consist of one sheet, will be furnished by the State Engineer upon payment of fifteen cents (15c.). Refund will not be made for any blueprints which may be returned.

SALT WATER BAYS COMMISSION
By DWIGHT B. LA DU,
Chairman.

Dated May 22, 1924.

Bids: June 17.

Gate-Valves and Hydrants

CONTRACT 217

New York, N. Y.

Sealed bids will be received by the Board of Water Supply, at its offices, twenty-second floor, Municipal Building, Park Row, Centre and Chambers streets, New York City, until 10 a.m., Eastern Standard time, on Tuesday, June 17, 1924, for Contract 217, for furnishing and delivering gate-valves and hydrants for the Williamsburg conduit of the Catskill aqueduct, all as set forth in the specifications. All deliveries shall be made, with all transportation charges prepaid, at the designated storage yard within the limits of the City of New York.

At the above place and time the bids will be publicly opened and read. Pamphlets containing information for bidders, forms of bid and contract, specifications, contract drawings, etc., can be obtained at the office of the Secretary at the above address, by depositing the sum of ten dollars ($10) in cash or its equivalent for each pamphlet. For further particulars apply to the office of the Chief Engineer at the above address.

GEORGE J. GILLESPIE,
President.
JAMES P. SINNOTT,
PHILIP F. DONOHUE,
Commissioners, Board of Water Supply.
BENJ. F. EINBIGLER, Secretary.